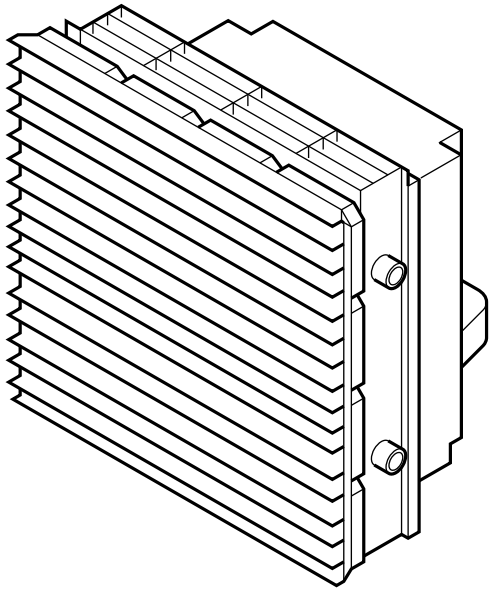
SERVICE MANUAL

JumboTron

MODEL	DEST.
LDU-1530S	World
LDU-1530L	World
LDU-1540S	World
LDU-1540L	World

REVISED-1



LED Jumbo Tron Display Unit

SONY

⚠警告

このマニュアルは，サービス専用です。
お客様が，このマニュアルに記載された設置や保守，点検，修理などを行うと感電や火災，人身事故につながることがあります。
危険をさけるため，サービストレーニングを受けた技術者のみご使用下さい。

⚠ WARNING

This manual is intended for qualified service personnel only.
To reduce the risk of electric shock, fire or injuly, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

WARNING!!

AN INSULATED TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF THE LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY A ⚠ MARK ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ÉLECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE.
LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ Á L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS ÁLA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

CAUTION OF UNIT

CAUTION

1. To Avoid Unit from Dropping
   Allways attach the wire to the unit before installation or removal to avoid injury by accidental drop of the unit.

2. Do Not Look LED Light Straight
   Looking LED light straight in close distance, when LED is ON, strong light may be harmful to your eyes.

Specifications

Display element:	Full color LED cell × 16
Maximum brightness:	3000 cd/m² (1530L, 1530S)
	4000 cd/m² (1540L, 1540S)
Color temperature:	7000 K (1/2 brightness)
Uneven brightness:	±3% or less (front, between pixels)
Pixel pitch:	15 mm × 15 mm
Visible distance:	7.6 m or more
Angle of visibility:	Horizontal +60 ° (1530S, 1530L) (1540S, 1540L)
	Vertical (50%)
	Up 30 °, down 60 °: (1530S, 1540S)
	Up 15 °, down 40 °: (1530L, 1540L)
Operating temperature:	0 °C to +45 °C
Storage temperature:	−20 °C to +60 °C
Humidity:	90% or less (no condensation)
Drip-proof:	Surface drip-proof structure (equivalent to JIS Grade 5)
Power supply voltage, frequency:	AC100 ~ 240 V ±10%, 50/60 Hz
Power consumption:	Maximum 100 W
Signal input:	15-pin connector
Power supply input:	3-pin inlet
Dimensions:	239 × 239 × 153 mm (H × W × D) : (1530S, 1540S)
	239 × 239 × 158 mm (H × W × D) : (1530L, 1540L)
Weight:	3.0 kg

Units and cells

	Louver length (mm)	Brightness (cd/m²)	Visible angle (H/V)	Remarks
LDU-1530S	7	3000	120 °/ u: 30 ° d: 60°	Indoor use Low noise level
LDU-1530L	12	3000	120 °/ u: 15 ° d: 40 °	Outdoor use Wide visible angle
LDU-1540S	7	4000	120 °/ u: 30 ° d: 60°	Indoor use Low noise level
LDU-1540L	12	4000	120 °/ u: 15 ° d: 40 °	Outdoor use Wide visible angle

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3. CIRCUIT DESCRIPTIONS

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5. EXPLODED VIEWS

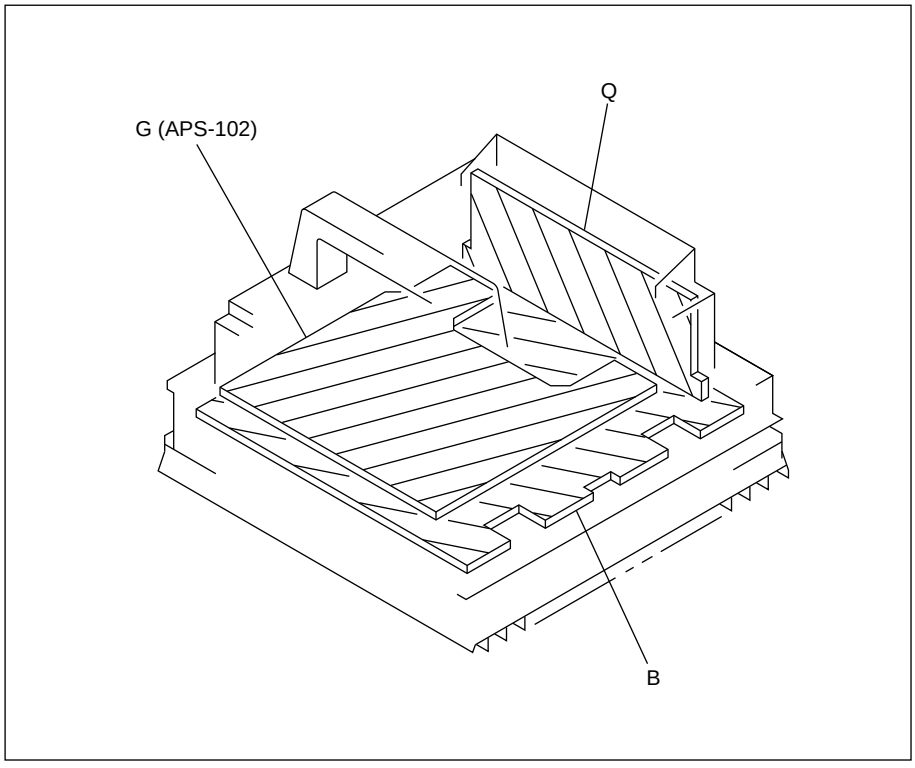
6. ELECTRICAL PARTS LIST

7. BLOCK DIAGRAM

8. DIAGRAMS

SECTION 1
SERVICE INFORMATIONS

1-1. CIRCUIT BOARDS LOCATION



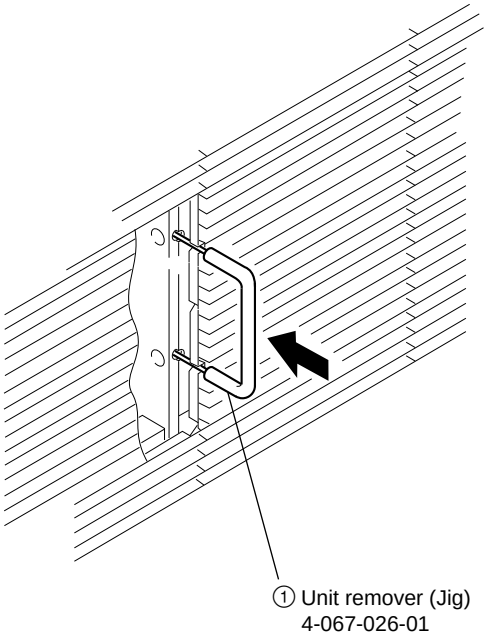
Caution for Static Electricity to LED Cell

The LED is very weak to static electricity, and a discharge of static electricity could shorten the LED life.
Wear the earth bands when touching the LED or the connector of the LED cell to replace the LED cell or handle the unit.

1-2. DISASSEMBLY

1-2-1. Exchanging the Display Unit from the Front Side of the Unit.

1.



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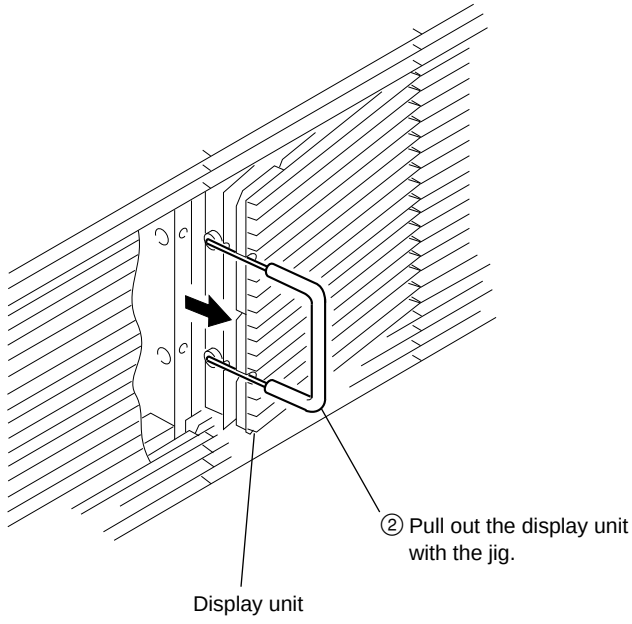
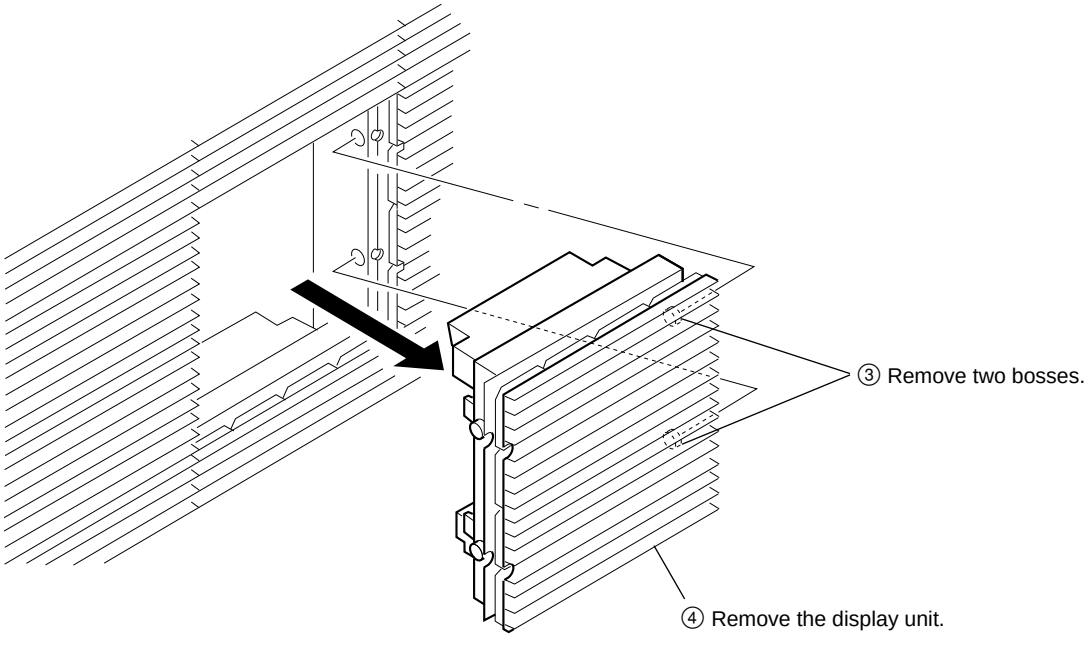
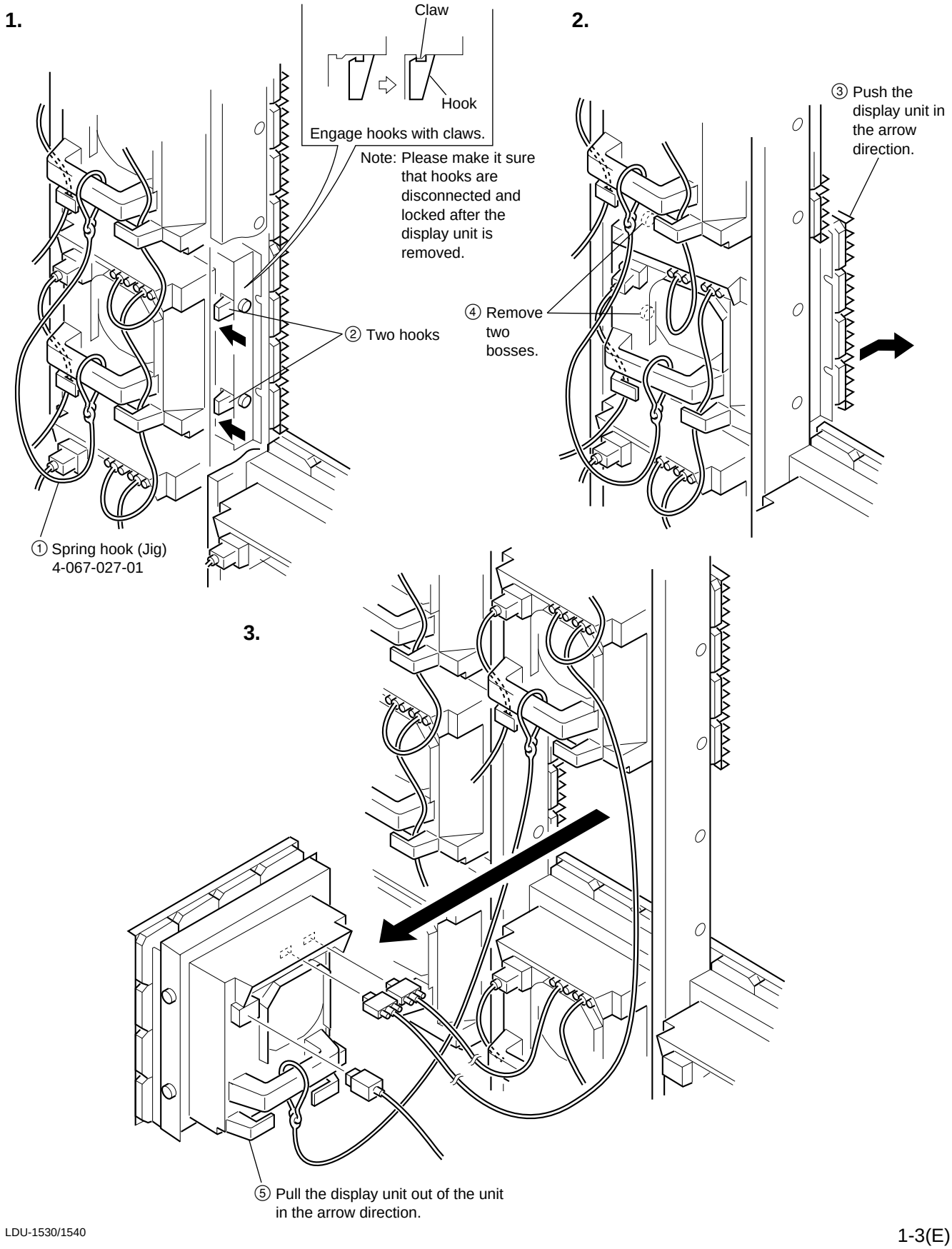


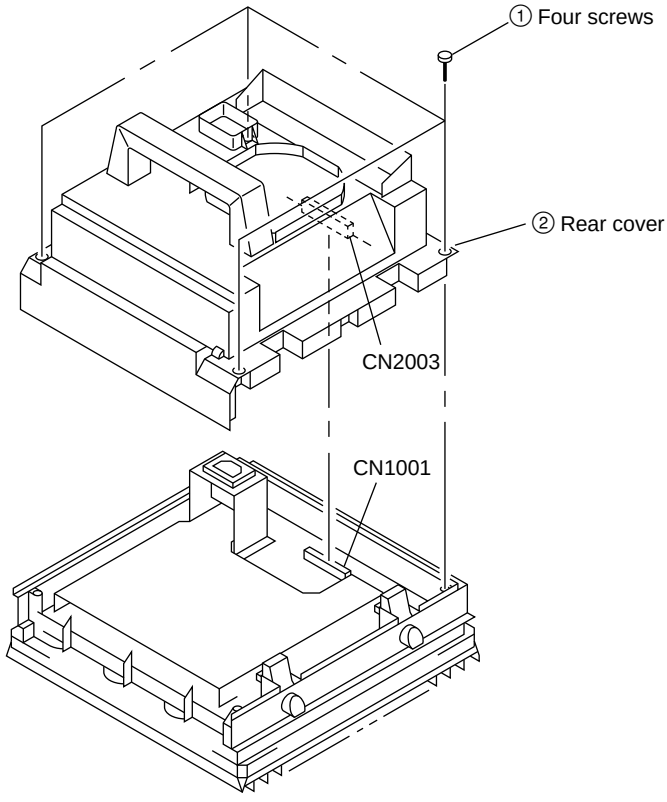
3.



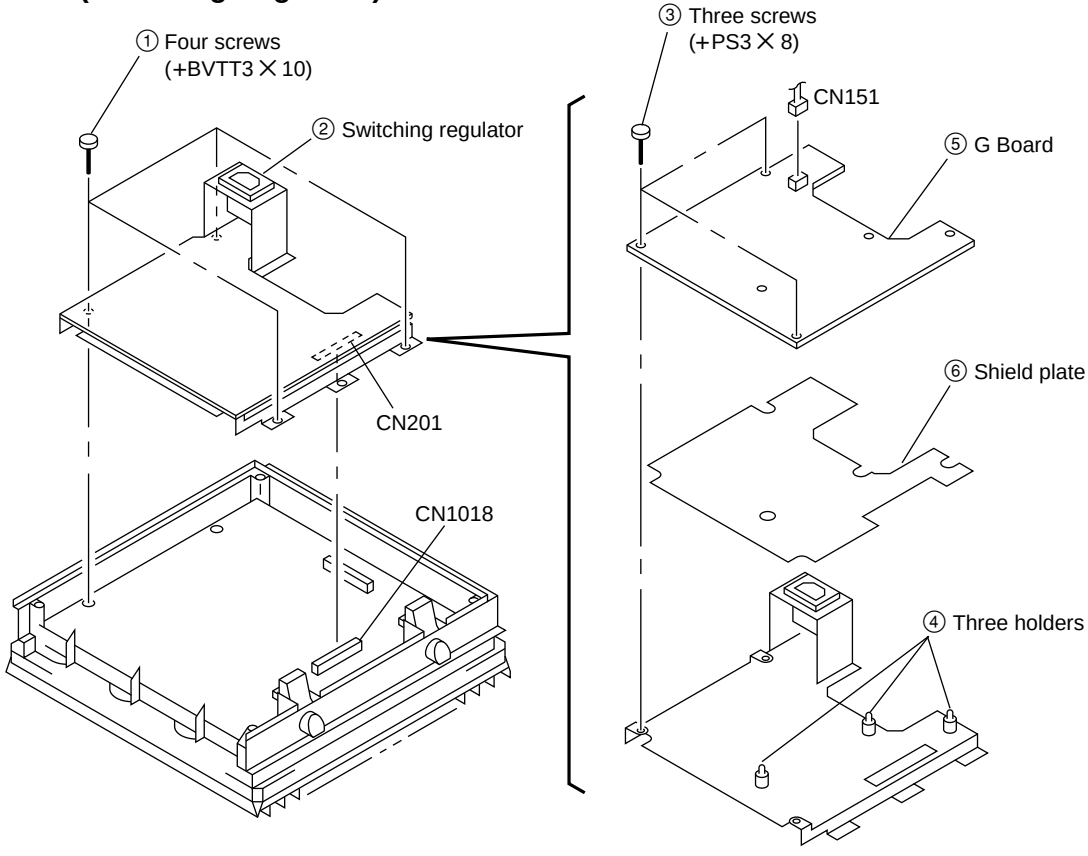
1-2-2. Exchanging the Display Unit from the Behind of the Unit.



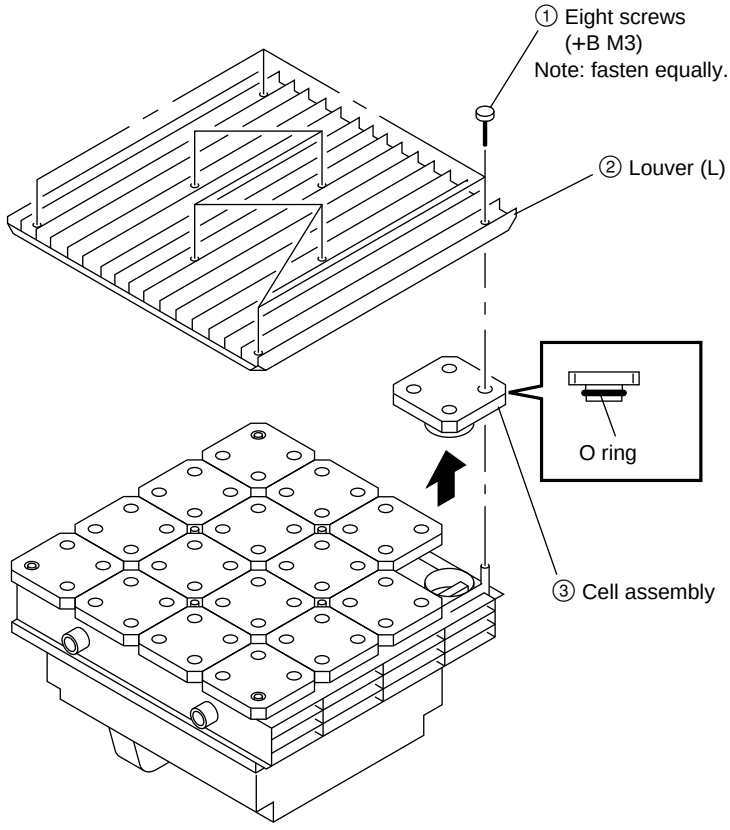
1-2-3. Rear Cover Removal



1-2-4. G Board (Switching Regulator) Removal

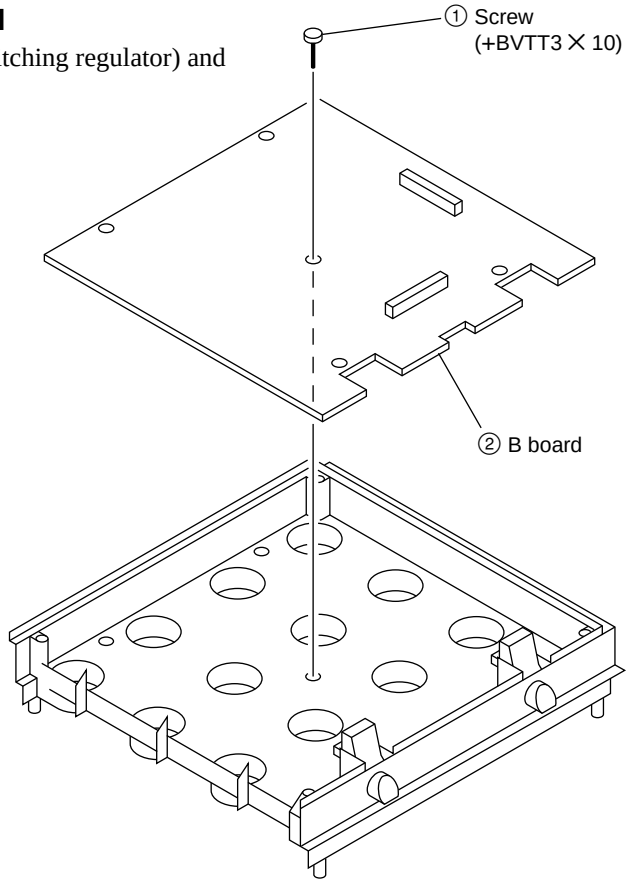


1-2-5. Cell Assembly Removal

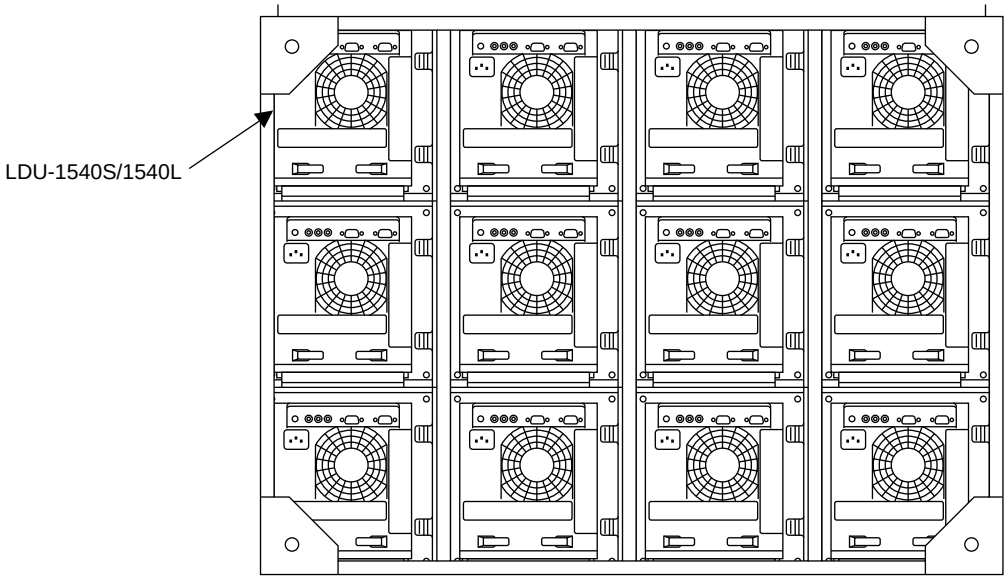


1-2-6. B Board Removal

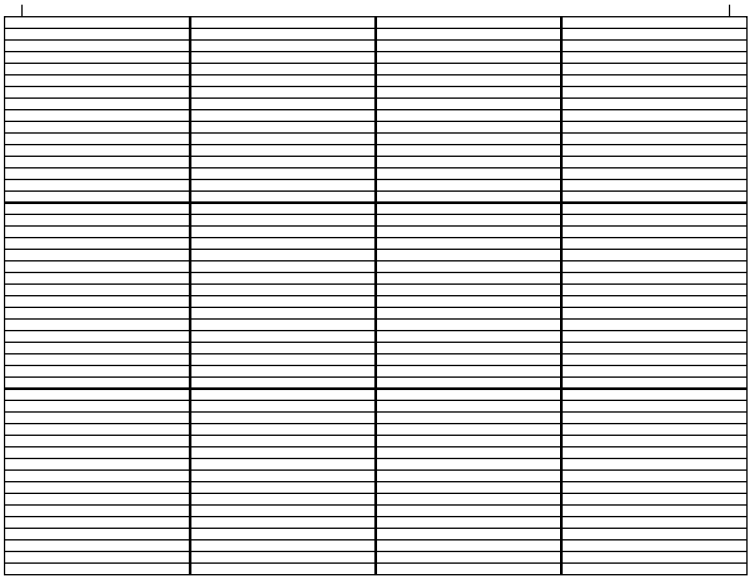
- Remove the G Board (switching regulator) and cell assembly.



1-2-7. LDM-1540S/1540L Exterior View



Rear View



Front View

Note: On replacing one of the units in the module, each unit is placed in each shelf; the top, the middle and the bottom. In three units, the top one and the bottom one cannot be replaced immediately because the module frame obstructs them. To remove the top or bottom unit, remove the middle unit first and unlock the hooks of the unit to be removed. Then slide it a little bit into the space where the middle one used to be. To install, follow the method in reverse order, that is, slide the unit in the shelf to fix through the space where the middle one used to be. After fixing, put the middle unit back. (Please connect the cable and perform setting of address (3-3(E)).)

SECTION 2
CIRCUIT ADJUSTMENTS

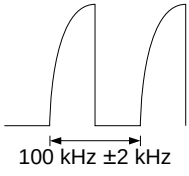
Measuring instrument:

1. Oscilloscope
2. Digital tester
3. DC power supply

G BOARD ADJUSTMENTS

2-1. LOWEST FREQUENCY ADJUSTMENT (RV103)

Apply 18 V between 4 pin (VIN) and 16 pin (GND) of IC103, and check the Q105 gate input waveform with an oscilloscope.
Then, adjust the frequency of gate waveform to 100 kHz ±2 kHz with the RV103. (Set oscilloscope to 5 V range)



* Don't turn on Power supply AC.

2-2. POWER FACTOR IMPROVEMENT (PFC) VOLTAGE ADJUSTMENT (RV101)

Power supply AC100 to 240 V, and adjust RV101 so that the voltage at both ends of C111 becomes 380 ±5 V. The load mode is the MIN.

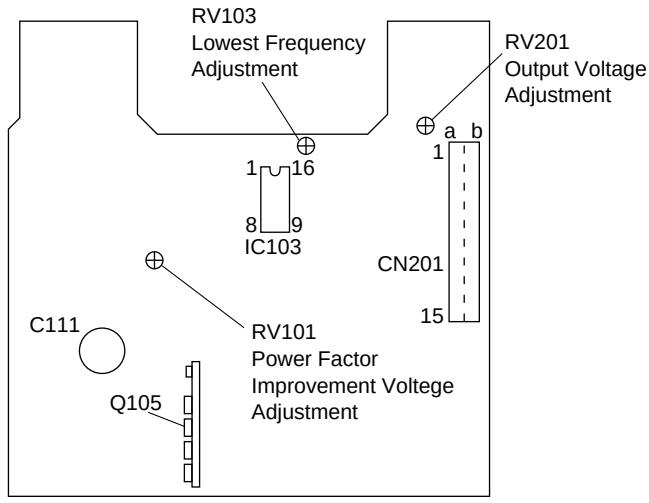
2-3. OUTPUT VOLTAGE ADJUSTMENT (RV201)

Power supply AC100 to 240 V, and adjust RV201 so that the output voltage of 5.8 V line (CN201 a8-13 pins) becomes 5.80 ±0.05 V.
Then, confirm that each line voltage is within the following range.

5.8 V line (CN201 a8-13 pins)	5.75 ~ 5.80 V
4.1 V line (CN201 a3-7 pins)	3.95 ~ 4.35 V
5.0 V line (CN201 a14, 15 pins)	4.80 ~ 5.20 V
12 V line (CN201 a1, 2 pins)	9.8 ~ 12.4 V

The load mode is the MIN.

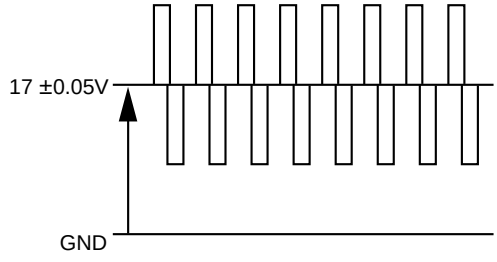
G Board (APS-102)



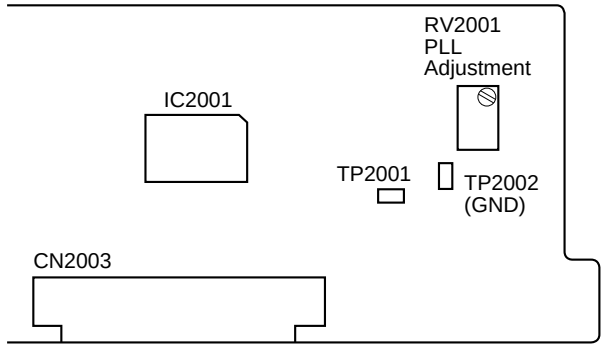
Q BOARD ADJUSTMENT

2-4. PLL ADJUSTMENT (RV2001)

Power supply AC100 to 240 V, connect the oscilloscope with TP2001 and adjust RV2001 so that the center of waveform becomes 1.7 ±0.05.



Q Board



SECTION 3
CIRCUIT DESCRIPTIONS

3-1. SIGNAL SYSTEM

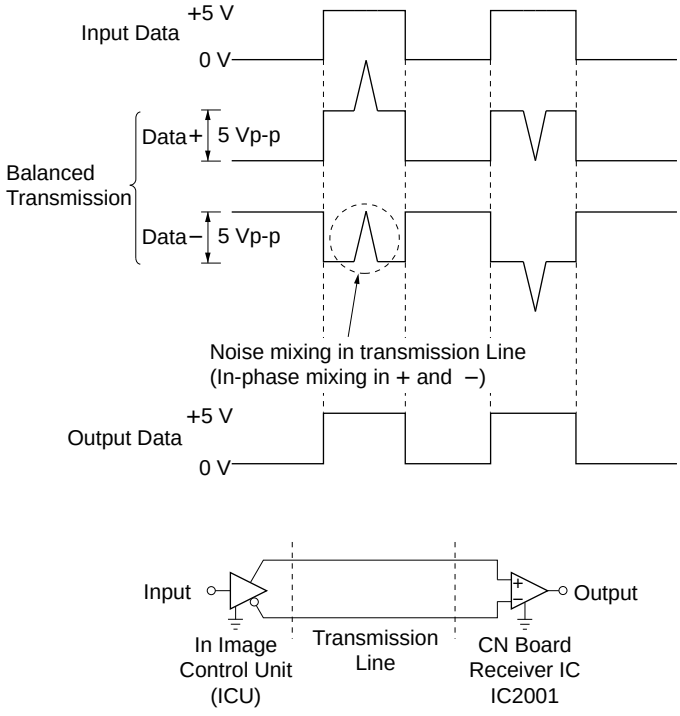


Fig. 1

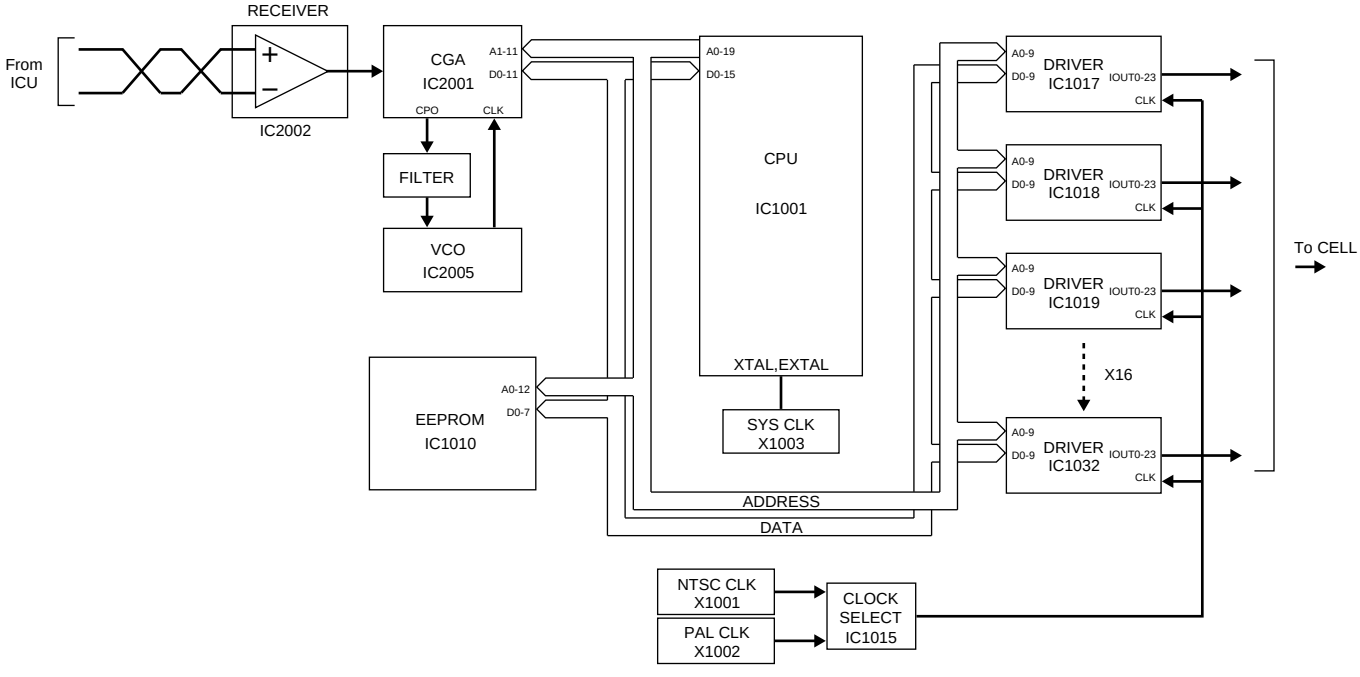


Fig. 2 Signal Block Diagram

The data signals from ICU are input to the IC2001 CGA via IC2002 line receiver on the Q board. A phase comparator is built in the CGA, and the PLL is composed of a combination of filter and IC2005 VCO. A clock component contained in the data form ICU is extracted by this PLL, and it is used as reference clock for CGA. The line address is added to the head of image data, and the CGA makes serial-parallel conversion of only the data that corresponds to the unit ID concerned and takes it in the RAM. The microprocessor IC1001 on the B board sends this data to respective drivers (IC1017 to 1032). Where PWM modulation is performed to drive the cells.
The correction data for each pixel are stored in the IC1010 EEPROM on the B board. The microprocessor always writes these correction data into the RAM in driver ICs on the B board. Based on these correction data, the driver ICs control the current to correct uneven brightness of each device. The clock input to the driver ICs is internally divided according to the brightness level, and it is used as reference clock for PWM modulation.

The correction data stored in the EEPROM are adjustable in the field using the unit alignment controller or screen alignment controller.

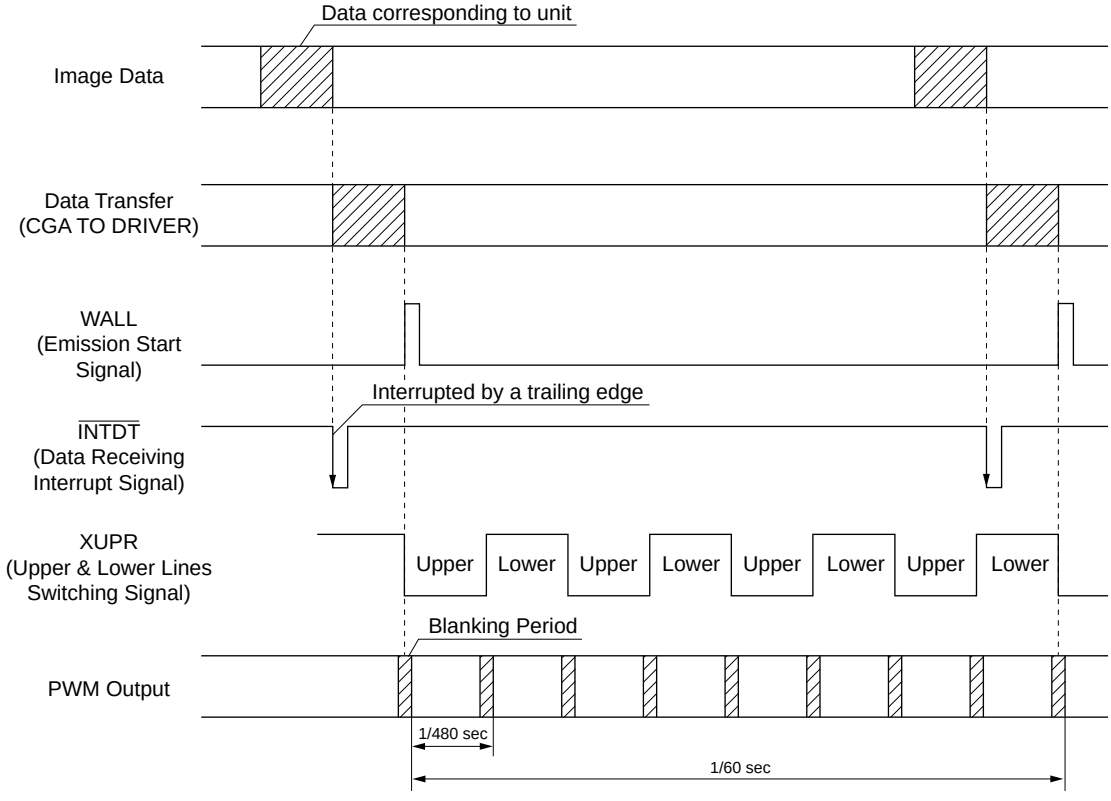


Fig. 3

3-2. ADDRESS SWITCH AND STATUS LED

3-2-1. Address Switch

The function of the signal generator is built in the unit, and it can generate three kinds of signals as listed in Table 1. The signals can be selected with the address switch. The address switch has been set to 001 at the shipment.

Address SW setting (Lower 2 digits)	Output signal	Remarks
∗97	Full white signal	
∗98	Character signal	Alphabets and numbers are scrolled.
∗99	Stair step signal, color bar signal, and blanking signal are scrolled.	

∗: Don't care for higher 1 digit.

Table 1

Initial setting of address switch:

In composing the screen, set the address switches of respective unit as follows.

01	01	01	01	01	01	
02	02	02	02	02	02	
03	03	03	03	03	03	
04	04	04	04	04	04	

3-2-2. Status LED

Specific unit can easily be selected by blinking the LED on the rear of unit using the unit alignment controller or screen alignment controller.

Green	Normal
Red lights up	Alarm
Red blinking	Unit selection

Also, in case of alarm, LED automatically lights up by the self diagnostic function.

4 V Down
6 V Down
12 V Down
Thermal Alarm
Fan Stop

3-2-3. Brightness Adjustment

The brightness (color temperature) can be adjusted for every unit, cell dot, and pixel using the unit alignment controller (JME-UA200), and this value can be stored in the memory. For an adjusting method, refer to the JME-UA200 Instruction Manual.

3-3. POWER SYSTEM

3-3-1. Filter & AC Rectifier Block

After AC inlet, a discharge resistor R101 and a normal mode lightning surge protect varistor VDR101 are arranged. After that, the 2-stage filter is composed of C101/LF101 and LF102/C102, and rectification is done with D101.

3-3-2. PFC Block

After rectification, a boost up converter is composed of Q101, D102, and C110, and the output voltage is maintained to about 380 V (adjusted with RV101) under control of IC101.
The IC101 detects the input current waveform to make the input current similar to the input voltage of the same phase so as to improve the power factor.
When the power is turned on, the power is supplied from R153, R154, then after the power supply block started to operate, the power is supplied from D105 and R117 of the T101 tertiary winding.
As for the overvoltage, etc. caused by alarms in the PFC control system, the double protection circuit of restriction by IC102 (5, 6, 7 pins) and latch through detection by IC103 is provided. The PFC output voltage is set to about 380 V with RV101.

Also for the overvoltage or overcurrent caused by alarms in the PFC control system, the protection circuit operates through monitoring by the IC103.

3-3-3. Power Supply Block

Basic circuit composition is the 2-crystal current resonance circuit consisting of Q104 and 105. Using C117 and T101 primary winding leakage inductance, the resonance system is made up to perform zero current switching. By the switching, the output of IC103 OUT 1, 2 pins is transmitted to the respective drive circuits for Q104 and 105 via T102 drive transformer. The control system is a

frequency control system, where the output voltage is controlled to constant level by varying the RT2 terminal via PH101.

3-3-4. OTP (Temperature Protection) Circuit

This circuit consists of THP101 and Q106 attached to the heat sink, and when the heat sink temperature rises over 110flC, THP101 opens, IC103 OVP terminal (6 pin) becomes “H”, IC101 is latched, and the switching of power supply block stops. To reset, turn off the AC and allow time for about one minute so as to lower the IC103 Vin terminal (4 pin) to 12 V or less.

3-3-5. Output Voltages

5.8 V Output

After output from the T101 secondary winding terminal, the power is rectified at D204 and 205, and a ripple component is reducedby a π type filter, then the voltage is output from the output terminal CN201 a8-13 pins. The output voltage is detected by the operation amplifier of IC202 5, 6, 7 pins, then it is returned to the IC103 12 pin via PH101 so as to be stabilized through the frequency control system. Both 5.8 V and 4.1 V are adjusted with RV201. Also, by detecting the voltage at both ends of L204, if the current in 5.8 V line is taken about 12 A or more, Q202 turns on via D215 and 214, PH102 operates, IC103 OVP terminal (6 pin) becomes “H”, IC101 is latched, and the switching of power supply block stops. To reset, turn off the AC and allow time for about one minute so as to lower the IC103 Vin terminal (4 pin) to 12V or less.

5.0 V Output

As for the 5 V output, the power is branched prior to L204 for 5.8 V output, and it is controlled to 5 V by 4-pin regulator IC201 having low saturation, then output from the output terminal CN201 a14-15 pins.

4.1 V Output

After output from the T101 secondary winding terminal, the 4.1 V power is supplied from D206 and magnetic amplifier consisting of L201 and 202. A ripple component is reduced by a π type filter, then the voltage is output from the output terminal CN201 a3-7 pins. The output voltage is detected by the operation amplifier of IC202 8, 9, 10 pins, then it is returned to the magnetic amplifier via Q201 so as to be stabilized.
Also, by detecting the voltage at both ends of L206 with IC202 12, 13, 14 pins, if the current in 4.1 V line is taken about 14 A or more, Q202 turns on via D215 and 214, PH102 operates, IC103 OVP terminal (6 pin) becomes “H”, IC101 is latched, and the switching of power supply block stops. To reset, turn off the AC and allow time for about one minute so as to lower the IC103 Vin terminal (4 pin) to 12 V or less.

12 V Output

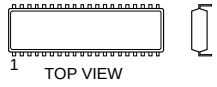
After output from the T101 secondary winding terminal, the 12 V is output from the double voltage circuit composing of C201, 202, and D202, 203, 209, 210 using the 5.8 V line. After that, it is branched into two lines; in one line, a ripple component is reduced by a π type filter, then it becomes Vcc for the circuit system on the secondary side, and in another line, the voltage is output from the output terminal CN201 a1-2 pins through the TH201 for current restriction.

3-3-6. OVP Circuit

The 5.8 V and 4.1 V output voltages are monitored by Zener diode D212 and 211, and if overvoltage occurs, Q202 turns on via D215 and 214, PH102 operates, IC103 OVP terminal (6 pin) becomes “H”, IC101 is latched, and the switching of power supply block stops. To reset, turn off the AC and allow time for about one minute so as to lower the IC103 Vin terminal (4 pin) to 12 V or less.

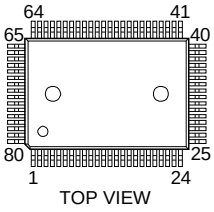
SECTION 4
SEMICONDUCTORS

BA10324A

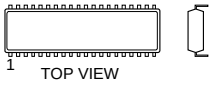


14pin DIP

CXA2108Q

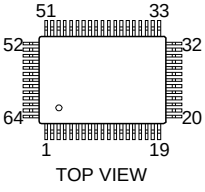


CXA8038AP
SN74HC138APW-E05

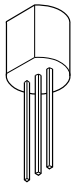


16pin DIP

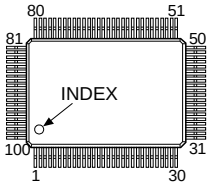
CXD316-107Q



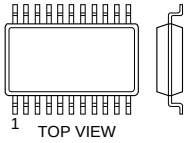
HA17431PA-TZ



HD6413002F10

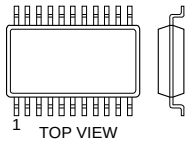


HN58C66FP-25



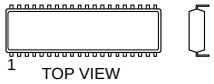
28pin SOP

LH5116N4



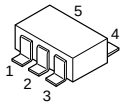
24pin SOP

MC34262P

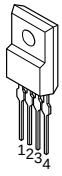


8pin DIP

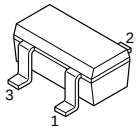
NC7S08M5X
NC7S32M5X



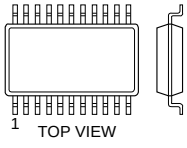
PQ05RF14



PST572CMT-T1

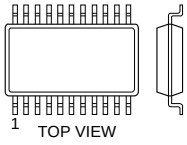


SN74HC00APW-E05
SN74HC04APW-E05
SN74HC14APW-E05



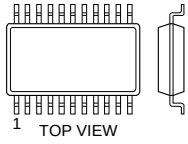
14pin SOP

SN74HC540APW-E05
SN74HC541ANS-E05
SN74HC541APW-E05



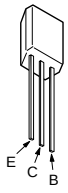
20pin SOP

SN74LS629NS-E05
SN75C1167NS-E05

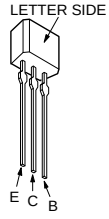


16pin SOP

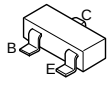
DTA114ESA-TP
2SA1175TP-F
2SA1175TP-H
2SA1175TP-J
2SC2785TP-F
2SC2785TP-H
2SC2785TP-J



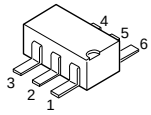
DTC114ESA-TP
2SD1858-Q-TV2
2SD1858-R-TV2



DTD143EK-T-146

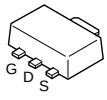


UMB11-TN

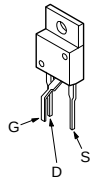


(1) DTr1 OUT
(2) DTr2 IN
(3) DTr2 GND
(4) DTr2 OUT
(5) DTr1 IN
(6) DTr1 GND

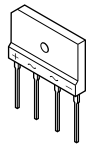
2SJ197-T1



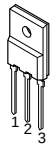
2SK2364



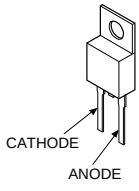
D3SB60F



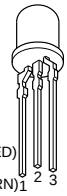
FCQ30A04



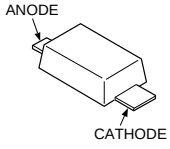
FSF05A60



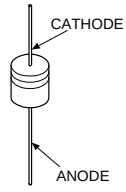
GL-5ED5



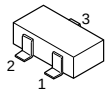
RB051L-40TE25



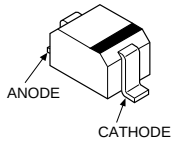
RB441Q-40-40T-72
RD13ES-T1B1
RD4.3ES-T1B
RD4.7ES-T1B1
RD6.8ES-T1B1
1SS119-25TD
1SS133T-77



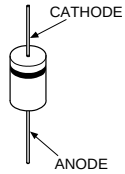
1SS123



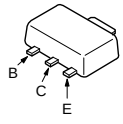
1SS355TE-17



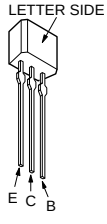
11EQS10-TA1



2SB1308-T101-QR



2SB810TP-J



SECTION 5
EXPLODED VIEWS

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified ⚠ marked are critical for safety.
Replace only with the part number specified.

Les composants identifiés par la marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

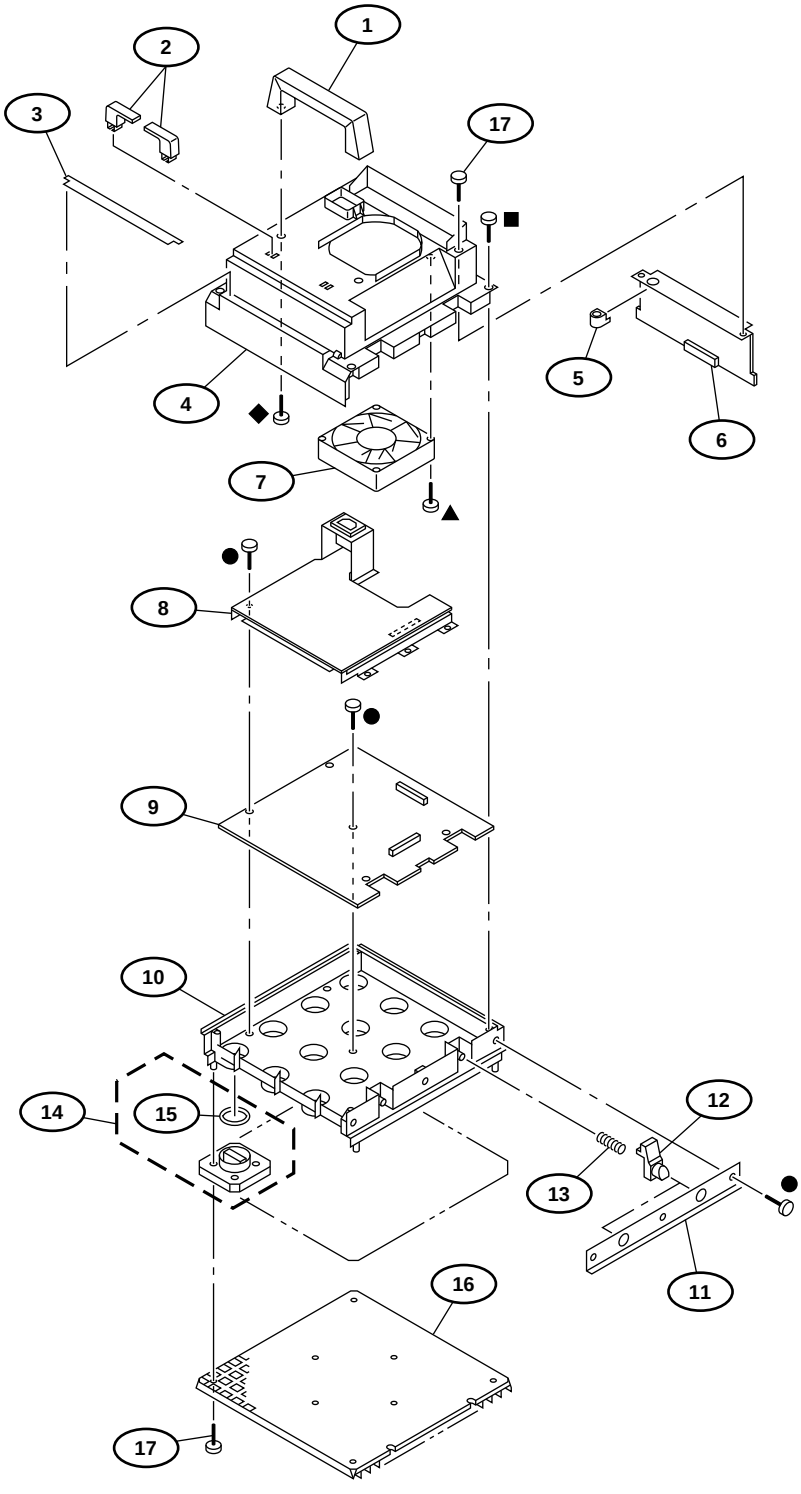
【使用上の注意】

- * 印の部品は常時在庫しておりません。
  受注して供給できるまで日数を要します。
- 分解図中の構成部品で，図面番号のない部品は供給しません。
- 組立部品の構成部品は備考欄に図面番号で示します。

⚠印の部品は，安全性を維持するために，重要な部品です。従って交換時は，必ず指定の部品を使用してください。

5-1. CHASSIS

● : 7-685-647-99 +BVTT3x10
■ : 7-685-663-99 +BVTT4x16
▲ : 7-682-968-09 +PSW4x30
◆ : 7-682-974-19 +PSW6x10



Rf.No.	Part No.	Description	Remark
1	*4-063-312-01	HANDLE	
2	4-316-003-00	HOLDER, CORD	
3	*4-064-806-02	PLATE, VALVE	
4	*4-063-308-02	COVER, REAR	
5	*4-063-315-01	LAMP COVER	
6	*A-1275-156-A	Q BOARD, COMPLETE	
7	1-698-787-11	FAN, DC (92 SQUARE)	
8	1-468-298-11	REGULATOR, SWITCHING	
9	*A-1135-946-A	B BOARD, COMPLETE	
10	*4-063-307-02	CABINET	
11	*4-063-314-01	STOPPER	
12	4-063-309-01	BRACKET, UNIT	
13	4-063-319-01	SPRING, COMPRESSION	
14	A-1501-301-A	CELL ASSY	15
15	4-063-316-01	ORING	
16	4-063-310-01	LOUVER (LDU-1530S/1540S:7mm)	
16	4-063-311-01	LOUVER (LDU-1530L/1540L:12mm)	
17	4-064-851-01	SCREW (+B M3)	

SECTION 6
ELECTRICAL PARTS LIST

NOTE:

The components identified ⚠ marked are critical for safety.
Replace only with the part number specified.

Les composants identifiés par la marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

- CAPACITORS
  PF : μμ F
- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

【使用上の注意】

⚠印の部品は，安全性を維持するために，重要な部品です。従って交換時は，必ず指定の部品を使用してください。

お願い
図面番号で部品を指定するときは，基板名又はブロックを併せて指定して下さい。

・抵抗の単位Ωは省略してあります。
　参考欄のFは不燃性抵抗を示します。
・* 印の部品は常時在庫しておりません。
・ここに記載されている部品は，補修部品であるため，回路図及びセットについている部品と異なる場合があります。
・基板どうしでリファレンスNo.が重複している場合がありますので発注の際には必ず基板名を明記して下さい。

Rf.NO.	PART NO.	DESCRIPTION			REMARK
	1-468-298-11	G (APS-102) REGULATOR SWITCHING **********			
	1-533-217-31	FUSE HOLDER			
	7-682-648-09	SCREW +PS3X8 (SWCH.CZN-N)			
	7-682-661-09	SCREW M4X8			
	7-685-646-79	SCREW +BV3X8 TYPE2 IT3B			
	< CAPACITOR >				
C101	⚠1-117-916-51	FILM	0.22uF	20%	250V
C102	⚠1-117-916-51	FILM	0.22uF	20%	250V
C103	⚠1-113-920-91	CERAMIC	2200PF	20%	
C104	⚠1-113-920-91	CERAMIC	2200PF	20%	
C106	⚠1-113-920-91	CERAMIC	2200PF	20%	
C107	⚠1-117-583-11	FILM	1.0uF		450V
C108	1-110-506-51	FILM	0.47uF	10%	450V
C109	1-117-583-11	FILM	1.0uF		450V
C110	1-117-583-11	FILM	1.0uF		450V
C111	1-110-970-11	ELECT	150uF	20%	450V
C113	1-130-467-00	FILM	470PF	5%	50V
C114	1-130-467-00	FILM	470PF	5%	50V
C115	1-130-471-91	FILM	1000PF		50V
C116	1-130-471-91	FILM	1000PF		50V
C117	1-113-504-11	FILM	0.0082uF	700V	
C118	1-115-802-11	ELECT	56uF	20%	50V
C119	1-115-802-11	ELECT	56uF	20%	50V
C120	1-130-471-91	FILM	1000PF		50V
C122	1-136-165-00	FILM	0.1uF	5%	50V
C123	1-107-910-11	ELECT	100uF	20%	35V
C124	1-130-483-00	FILM	0.01uF	5%	50V
C125	1-136-169-00	FILM	0.22uF	5%	50V
C126	1-130-471-91	FILM	1000PF		50V

Rf.NO.	PART NO.	DESCRIPTION			REMARK
C133	1-117-975-91	CERAMIC	330PF		50V
C134	1-130-475-91	FILM	2200PF		50V
C135	1-130-467-00	FILM	470PF	5%	50V
C136	1-130-471-91	FILM	1000PF		50V
C137	1-130-483-00	FILM	0.01uF	5%	50V
C138	1-136-165-00	FILM	0.1uF	5%	50V
C139	1-136-165-00	FILM	0.1uF	5%	50V
C140	1-136-165-00	FILM	0.1uF	5%	50V
C141	1-136-165-00	FILM	0.1uF	5%	50V
C142	1-136-165-00	FILM	0.1MF	5%	50V
C143	1-107-903-11	ELECT	2.2uF	20%	50V
C144	1-130-471-91	FILM	1000PF		50V
C201	1-136-177-00	FILM	1.0uF	5%	50V
C202	1-136-177-00	FILM	1.0uF	5%	50V
C203	1-115-737-11	ELECT	1000uF	20%	10V
C204	1-115-737-11	ELECT	1000uF	20%	10V
C205	1-115-802-11	ELECT	56uF	20%	50V
C206	1-115-756-11	ELECT	270uF	20%	16V
C207	1-115-747-31	ELECT	6800uF		10V
C208	1-115-747-31	ELECT	6800uF		10V
C209	1-136-165-00	FILM	0.1MF	5%	50V
C210	1-115-737-11	ELECT	1000uF	20%	10V
C211	1-115-737-11	ELECT	1000uF	20%	10V
C213	1-130-483-00	FILM	0.01uF	5%	50V
C214	1-136-165-00	FILM	0.1MF	5%	50V
C215	1-107-906-11	ELECT	10uF	20%	50V
C216	1-136-165-00	FILM	0.1MF	5%	50V
C217	1-136-169-00	FILM	0.22uF	5%	50V
C218	1-130-483-00	FILM	0.01uF	5%	50V
C219	1-136-165-00	FILM	0.1MF	5%	50V
C220	1-136-165-00	FILM	0.1MF	5%	50V
C221	1-115-712-91	ELECT	820uF		6.3V

G

Rf.NO.	PART NO.	DESCRIPTION			REMARK
C223	1-115-712-91	ELECT	820uF		6.3V
C224	1-130-471-91	FILM	1000PF		50V
C225	1-115-706-11	ELECT	220uF	20%	6.3V
C226	1-136-169-00	FILM	0.22uF	5%	50V
C227	1-136-169-00	FILM	0.22uF	5%	50V
		< CONNECTOR >			
CN151	1-691-960-11	CONNECTOR PIN(B2P3-VH-B)			
CN201	*1-785-071-11	CONNECTOR 30P			
		< DIODE >			
D101	⚠8-719-510-51	DIODE D3SB60F			
D102	8-719-054-59	DIODE FSF05A60			
D103	8-719-911-19	DIODE 1SS119-25TD			
D104	8-719-911-19	DIODE 1SS119-25TD			
D105	8-719-200-91	DIODE 11EQS10-TA1			
D106	8-719-921-20	DIODE 1SS119-25TD			
D107	8-719-911-19	DIODE 1SS119-25TD			
D111	8-719-050-83	DIODE RB441Q-40-40T-72			
D113	8-719-911-19	DIODE 1SS119-25TD			
D114	8-719-110-35	DIODE RD13ES-T1B1			
D115	8-719-911-19	DIODE 1SS119-25TD			
D202	8-719-200-91	DIODE 11EQS10-TA1			
D203	8-719-200-91	DIODE 11EQS10-TA1			
D204	8-719-055-40	DIODE FCQ30A04			
D205	8-719-055-40	DIODE FCQ30A04			
D206	8-719-055-40	DIODE FCQ30A04			
D207	8-719-911-19	DIODE 1SS119-25TD			
D208	8-719-911-19	DIODE 1SS119-25TD			
D209	8-719-200-91	DIODE 11EQS10-TA1			
D210	8-719-200-91	DIODE 11EQS10-TA1			
D211	8-719-109-80	DIODE RD4.7ES-T1B1			
D212	8-719-109-96	DIODE RD6.8ES-T1B1			
D213	8-719-911-19	DIODE 1SS119-25TD			
D214	8-719-911-19	DIODE 1SS119-25TD			
D215	8-719-109-74	DIODE RD4.3ES-T1B			
		< FUSE >			
F101	⚠1-576-230-11	FUSE(H.B.C) 250V/3.15A			
		< IC >			
IC101	8-759-332-30	IC MC34262P			
IC102	8-759-321-95	IC HA17431PA-TZ			
IC103	8-759-470-07	IC CXA8038AP			
IC201	8-759-246-78	IC PQ05RF14			
IC202	8-759-938-12	IC BA10324A			
IC203	8-759-321-95	IC HA17431PA-TZ			
		< COIL >			
L101	1-416-062-11	COIL,CHOKE PFC EG3310139			
L103	1-416-061-11	COIL,CHOKE (SK-10M-5Y)			
L201	1-411-964-11	COIL,CHOKE (AMS-12S-N-3T)			
L202	1-411-964-11	COIL,CHOKE (AMS-12S-N-3T)			
L203	1-416-616-11	COIL,CHOKE (CH71512) 2.2uH			
L204	1-416-616-11	COIL,CHOKE (CH71512) 2.2uH			
L205	1-406-703-21	COIL,CHOKE (PC8-3R3M)			
L206	1-416-616-11	COIL,CHOKE (CH71512) 2.2uH			
		< LINE FILTER >			
LF101	⚠1-429-365-11	LFT SS28V-30030A			
LF102	⚠1-424-678-11	LFT SS28V-10250			
		< PHOTO COUPLER >			
PH101	8-749-010-64	PHOTO COUPLER PC123FY2			
PH102	8-749-010-64	PHOTO COUPLER PC123FY2			
		< TRANSISTOR >			
Q101	8-729-033-55	FET 2SK2364(1)			
Q102	8-729-114-69	TRANSISTOR 2SB810TP-J			
Q103	8-729-114-69	TRANSISTOR 2SB810TP-J			
Q104	8-729-033-55	FET 2SK2364(1)			
Q105	8-729-033-55	FET 2SK2364(1)			
Q106	8-729-173-38	TRANSISTOR 2SA1175TP-J			
Q111	8-729-029-21	TRANSISTOR DTA114ESA-TP			
Q112	8-729-029-66	TRANSISTOR DTC114ESA-TP			
Q113	8-729-931-14	TRANSISTOR 2SD1858-Q-TV2			
Q201	8-729-114-69	TRANSISTOR 2SB810TP-J			
Q202	8-729-119-78	TRANSISTOR 2SC2785TP-J			
		< RESISTOR >			
R101	⚠1-244-937-91	CARBON	470K	5%	1/2W
R102	1-249-425-11	CARBON	4.7K	5%	1/4W
R103	1-216-361-00	METAL OXIDE	0.22	5%	2W
R106	1-215-903-11	METAL OXIDE	68K	5%	2W
R107	1-215-903-11	METAL OXIDE	68K	5%	2W
R108	1-249-401-11	CARBON	47	5%	1/4W
R109	1-249-393-11	CARBON	10	5%	1/4W
R110	1-249-425-11	CARBON	4.7K	5%	1/4W
R111	1-249-425-11	CARBON	4.7K	5%	1/4W
R112	1-249-386-11	CARBON	4.7	5%	1/4W
R113	1-249-386-11	CARBON	4.7	5%	1/4W
R114	1-247-863-91	CARBON	22K	5%	1/4W
R115	1-247-863-91	CARBON	22K	5%	1/4W
R116	1-216-341-11	METAL OXIDE	0.22	5%	1W
R117	1-249-386-11	CARBON	4.7	5%	1/4W
R118	1-247-863-91	CARBON	22K	5%	1/4W
R120	1-247-895-91	CARBON	470K	5%	1/4W
R121	1-247-895-91	CARBON	470K	5%	1/4W
R122	1-247-895-91	CARBON	470K	5%	1/4W
R123	1-249-431-11	CARBON	15K	5%	1/4W
R124	1-247-903-00	CARBON	1.0M	5%	1/4W
R125	1-247-903-00	CARBON	1.0M	5%	1/4W
R126	1-249-430-11	CARBON	12K	5%	1/4W
R127	1-249-429-11	CARBON	10K	5%	1/4W
R129	1-247-807-31	CARBON	100	5%	1/4W
R130	1-247-863-91	CARBON	22K	5%	1/4W
R140	1-249-431-11	CARBON	15K	5%	1/4W
R141	1-249-425-11	CARBON	4.7K	5%	1/4W
R142	1-249-429-11	CARBON	10K	5%	1/4W
R143	1-249-425-11	CARBON	4.7K	5%	1/4W
R145	1-247-863-91	CARBON	22K	5%	1/4W
R146	1-249-401-11	CARBON	47	5%	1/4W

Rf.NO.	PART NO.	DESCRIPTION			REMARK
R147	1-249-417-11	CARBON	1.0K	5%	1/4W
R148	1-249-406-11	CARBON	120	5%	1/4W
R149	1-249-421-11	CARBON	2.2K	5%	1/4W
R150	1-247-807-31	CARBON	100	5%	1/4W
R151	1-247-863-91	CARBON	22K	5%	1/4W
R152	1-249-417-11	CARBON	1.0K	5%	1/4W
R153	1-215-903-11	METAL OXIDE	68K	5%	2W
R154	1-215-903-11	METAL OXIDE	68K	5%	2W
R155	1-247-807-31	CARBON	100	5%	1/4W
R156	1-247-903-00	CARBON	1.0M	5%	1/4W
R157	1-247-903-00	CARBON	1.0M	5%	1/4W
R158	1-247-863-91	CARBON	22K	5%	1/4W
R159	1-247-863-91	CARBON	22K	5%	1/4W
R160	1-249-421-11	CARBON	2.2K	5%	1/4W
R201	1-247-807-31	CARBON	100	5%	1/4W
R202	1-247-807-31	CARBON	100	5%	1/4W
R203	1-247-815-91	CARBON	220	5%	1/4W
R204	1-247-807-31	CARBON	100	5%	1/4W
R206	1-249-425-11	CARBON	4.7K	5%	1/4W
R207	1-249-417-11	CARBON	1.0K	5%	1/4W
R208	1-247-807-31	CARBON	100	5%	1/4W
R209	1-247-815-91	CARBON	220	5%	1/4W
R210	1-247-807-31	CARBON	100	5%	1/4W
R211	1-249-429-11	CARBON	10K	5%	1/4W
R212	1-215-433-00	METAL	3.3K	1%	1/4W
R213	1-215-420-00	METAL	910	1%	1/4W
R215	1-215-437-00	METAL	4.7K	1%	1/4W
R216	1-215-437-00	METAL	4.7K	1%	1/4W
R217	1-249-417-11	CARBON	1.0K	5%	1/4W
R218	1-249-429-11	CARBON	10K	5%	1/4W
R219	1-249-429-11	CARBON	10K	5%	1/4W
R220	1-249-417-11	CARBON	1.0K	5%	1/4W
R221	1-247-807-31	CARBON	100	5%	1/4W
R222	1-247-807-31	CARBON	100	5%	1/4W
R223	1-249-421-11	CARBON	2.2K	5%	1/4W
R224	1-249-425-11	CARBON	4.7K	5%	1/4W
R225	1-249-425-11	CARBON	4.7K	5%	1/4W
R226	1-249-425-11	CARBON	4.7K	5%	1/4W
R228	1-249-421-11	CARBON	2.2K	5%	1/4W
R229	1-249-425-11	CARBON	4.7K	5%	1/4W
R230	1-249-425-11	CARBON	4.7K	5%	1/4W
R231	1-249-429-11	CARBON	10K	5%	1/4W
R232	1-249-441-11	CARBON	100K	5%	1/4W
		< VARIABLE RESISTOR >			
RV101	1-241-763-11	ADJ,CARBON	4.7K		
RV103	1-241-764-11	ADJ,CARBON	10K		
RV201	1-241-763-11	ADJ,CARBON	4.7K		
		<TRANSFORMER >			
T101	⚠1-431-771-11	TRANSFORMER, CVT FEE40M AL23			
T102	1-426-931-11	TRANSFORMER, DT U070304Z			
		< THERMISTOR >			
TH101	1-810-965-11	THERMISTOR 5D-11			
TH201	1-801-829-11	THERMISTOR (PTH8L07BA0R9M)			
TH202	1-801-829-11	THERMISTOR (PTH8L07BA0R9M)			
THP101	1-809-789-71	THERMISTOR			

Rf.NO.	PART NO.	DESCRIPTION			REMARK
		< VARISTOR >			
VDR101	⚠1-808-927-22	VARISTOR NV470D10-TB2			
VDR102	⚠1-809-909-22	VARISTOR NV270D03-TB2			
**********					
		* A-1135-946-A B COMPL			
		**********			
CNI101	1-251-047-11	SOCKET, IC			
		<CAPACITOR>			
C1001	1-163-235-11	CERAMIC CHIP 22PF		5%	50V
C1002	1-163-235-11	CERAMIC CHIP 22PF		5%	50V
C1003	1-163-235-11	CERAMIC CHIP 22PF		5%	50V
C1004	1-107-682-11	CERAMIC CHIP 1MF		10%	16V
C1005	1-163-235-11	CERAMIC CHIP 22PF		5%	50V
C1006	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1007	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1008	1-163-235-11	CERAMIC CHIP 22PF		5%	50V
C1009	1-163-235-11	CERAMIC CHIP 22PF		5%	50V
C1011	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1012	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1013	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1014	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1015	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1016	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1017	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1018	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1019	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1020	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1021	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1022	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1023	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1024	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1025	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1026	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1027	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1028	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1029	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1030	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1031	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1032	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1033	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1034	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1035	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1036	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1037	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1038	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1039	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1040	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1041	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1042	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1043	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1044	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1045	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1046	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1047	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1048	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1049	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V

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Rf.NO.	PART NO.	DESCRIPTION	REMARK
C1050	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1051	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1052	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1053	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1054	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1055	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1056	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1057	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1058	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1059	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1060	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1061	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1064	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1065	1-126-204-11	ELECT CHIP 47MF 20% 16V	
C1066	1-126-204-11	ELECT CHIP 47MF 20% 16V	
C1067	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1068	1-126-204-11	ELECT CHIP 47MF 20% 16V	
C1069	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1070	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1071	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1072	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1073	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1074	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1075	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1076	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1077	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1078	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1079	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1080	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1081	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1082	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1083	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1084	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1085	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1086	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1087	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1088	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1089	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1090	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1091	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1092	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1093	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1094	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1095	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1096	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1097	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1098	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1099	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1100	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1101	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1102	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1103	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1104	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1105	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1106	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1107	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1108	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1109	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1110	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1111	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1112	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1113	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1114	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1115	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1116	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1117	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1118	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1119	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1120	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1121	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1122	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1123	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1124	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1125	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1126	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1127	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1128	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1129	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1130	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1131	1-126-204-11	ELECT CHIP 47MF 20% 16V	
C1132	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1133	1-126-204-11	ELECT CHIP 47MF 20% 16V	
		<CONNECTOR>	
CN1001	1-691-855-11	CONNECTOR, BOARD TO BOARD 60P	
CN1002	* 1-785-137-11	SOCKET, CONNECTOR (RECEPTACLE)	
CN1003	* 1-785-137-11	SOCKET, CONNECTOR (RECEPTACLE)	
CN1004	* 1-785-137-11	SOCKET, CONNECTOR (RECEPTACLE)	
CN1005	* 1-785-137-11	SOCKET, CONNECTOR (RECEPTACLE)	
CN1006	* 1-785-137-11	SOCKET, CONNECTOR (RECEPTACLE)	
CN1007	* 1-785-137-11	SOCKET, CONNECTOR (RECEPTACLE)	
CN1008	* 1-785-137-11	SOCKET, CONNECTOR (RECEPTACLE)	
CN1009	* 1-785-137-11	SOCKET, CONNECTOR (RECEPTACLE)	
CN1010	* 1-785-137-11	SOCKET, CONNECTOR (RECEPTACLE)	
CN1011	* 1-785-137-11	SOCKET, CONNECTOR (RECEPTACLE)	
CN1012	* 1-785-137-11	SOCKET, CONNECTOR (RECEPTACLE)	
CN1013	* 1-785-137-11	SOCKET, CONNECTOR (RECEPTACLE)	
CN1014	* 1-785-137-11	SOCKET, CONNECTOR (RECEPTACLE)	
CN1015	* 1-785-137-11	SOCKET, CONNECTOR (RECEPTACLE)	
CN1016	* 1-785-137-11	SOCKET, CONNECTOR (RECEPTACLE)	
CN1017	* 1-785-137-11	SOCKET, CONNECTOR (RECEPTACLE)	
CN1018	1-785-084-11	RECEPTACLE,MULTI CONNECTOR30P	
		<DIODE>	
D1001	8-719-066-98	DIODE RB051L-40TE25	
		<FILTER>	
FL1001	1-239-903-11	FILTER, CHIP EMI	
FL1002	1-414-551-11	FERRITE 0UH	
FL1003	1-414-551-11	FERRITE 0UH	
FL1004	1-414-551-11	FERRITE 0UH	
FL1005	1-414-551-11	FERRITE 0UH	
FL1006	1-239-903-11	FILTER, CHIP EMI	
FL1007	1-239-899-21	FILTER, CHIP EMI	
FL1008	1-239-899-21	FILTER, CHIP EMI	
FL1009	1-239-899-21	FILTER, CHIP EMI	
FL1010	1-239-899-21	FILTER, CHIP EMI	

Rf.NO.	PART NO.	DESCRIPTION	REMARK
FL1011	1-239-899-21	FILTER, CHIP EMI	
FL1012	1-239-899-21	FILTER, CHIP EMI	
FL1013	1-239-899-21	FILTER, CHIP EMI	
FL1014	1-239-899-21	FILTER, CHIP EMI	
FL1015	1-239-899-21	FILTER, CHIP EMI	
FL1016	1-239-899-21	FILTER, CHIP EMI	
FL1017	1-239-899-21	FILTER, CHIP EMI	
FL1018	1-239-899-21	FILTER, CHIP EMI	
FL1019	1-239-899-21	FILTER, CHIP EMI	
FL1020	1-239-899-21	FILTER, CHIP EMI	
FL1021	1-239-899-21	FILTER, CHIP EMI	
FL1022	1-239-899-21	FILTER, CHIP EMI	
FL1023	1-239-899-21	FILTER, CHIP EMI	
FL1024	1-239-899-21	FILTER, CHIP EMI	
FL1025	1-239-899-21	FILTER, CHIP EMI	
FL1026	1-239-899-21	FILTER, CHIP EMI	
FL1027	1-239-899-21	FILTER, CHIP EMI	
FL1028	1-239-899-21	FILTER, CHIP EMI	
FL1029	1-239-899-21	FILTER, CHIP EMI	
FL1030	1-239-899-21	FILTER, CHIP EMI	
FL1031	1-239-899-21	FILTER, CHIP EMI	
FL1032	1-239-899-21	FILTER, CHIP EMI	
FL1033	1-239-899-21	FILTER, CHIP EMI	
FL1034	1-239-899-21	FILTER, CHIP EMI	
FL1035	1-239-899-21	FILTER, CHIP EMI	
FL1036	1-239-899-21	FILTER, CHIP EMI	
FL1037	1-239-899-21	FILTER, CHIP EMI	
FL1038	1-239-899-21	FILTER, CHIP EMI	
FL1039	1-239-899-21	FILTER, CHIP EMI	
FL1040	1-239-899-21	FILTER, CHIP EMI	
		<IC>	
IC1001	8-759-283-49	IC HD6413002F10	
IC1002	8-759-049-70	IC SN74HC138APW-E05	
IC1003	8-759-049-70	IC SN74HC138APW-E05	
IC1004	8-759-049-80	IC SN74HC541APW-E05	
IC1005	8-759-049-80	IC SN74HC541APW-E05	
IC1006	8-759-049-80	IC SN74HC541APW-E05	
IC1007	8-759-049-80	IC SN74HC541APW-E05	
IC1008	8-759-049-70	IC SN74HC138APW-E05	
IC1009	8-759-049-70	IC SN74HC138APW-E05	
IC1010	8-759-055-21	IC HN58C66FP-25	
IC1011	8-759-359-91	IC LH5116N4	
IC1012	* 8-759-570-69	IC HN27C1024HCC-10-LU110	
IC1013	8-759-518-38	IC PST572CMT	
IC1014	8-759-471-74	IC NC7S08M5X	
IC1015	8-759-049-55	IC SN74HC00APW-E05	
IC1016	8-759-049-92	IC SN74HC14APW-E05	
IC1017	8-752-083-82	IC CXA2108Q	
IC1018	8-752-083-82	IC CXA2108Q	
IC1019	8-752-083-82	IC CXA2108Q	
IC1020	8-752-083-82	IC CXA2108Q	
IC1021	8-752-083-82	IC CXA2108Q	
IC1022	8-752-083-82	IC CXA2108Q	
IC1023	8-752-083-82	IC CXA2108Q	
IC1024	8-752-083-82	IC CXA2108Q	
IC1025	8-752-083-82	IC CXA2108Q	
IC1026	8-752-083-82	IC CXA2108Q	
IC1027	8-752-083-82	IC CXA2108Q	
IC1028	8-752-083-82	IC CXA2108Q	
IC1029	8-752-083-82	IC CXA2108Q	
IC1030	8-752-083-82	IC CXA2108Q	
IC1031	8-752-083-82	IC CXA2108Q	
IC1032	8-752-083-82	IC CXA2108Q	
IC1033	8-759-471-76	IC NC7S32M5X	
IC1034	8-759-049-58	IC SN74HC04APW-E05	
IC1035	8-759-049-80	IC SN74HC541APW-E05	
IC1036	8-759-050-36	IC SN74HC540APW-E05	
IC1037	8-759-049-80	IC SN74HC541APW-E05	
IC1038	8-759-050-36	IC SN74HC540APW-E05	
IC1039	8-759-049-80	IC SN74HC541APW-E05	
IC1040	8-759-049-80	IC SN74HC541APW-E05	
IC1041	8-759-049-80	IC SN74HC541APW-E05	
		<TRANSISTOR>	
Q1001	8-729-904-72	TRANSISTOR DTD143EK	
Q1002	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1003	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1004	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1005	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1006	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1007	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1008	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1009	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1010	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1011	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1012	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1013	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1014	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1015	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1016	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1017	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1018	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1019	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1020	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1021	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1022	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1023	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1024	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1025	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1026	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1027	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1028	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1029	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1030	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1031	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1032	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1033	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1034	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1035	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1036	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1037	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1038	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1039	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1040	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1041	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1042	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1043	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1044	8-729-015-55	TRANSISTOR 2SJ197-T1	

B

Rf.NO.	PART NO.	DESCRIPTION	REMARK
Q1045	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1046	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1047	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1048	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1049	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1050	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1051	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1052	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1053	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1054	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1055	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1056	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1057	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1058	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1059	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1060	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1061	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1062	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1063	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1064	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1065	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1066	8-729-904-72	TRANSISTOR DTD143EK	
Q1067	8-729-923-45	TRANSISTOR 2SB1308-T101-QR	
Q1068	8-729-923-45	TRANSISTOR 2SB1308-T101-QR	
		<RESISTOR>	
R1001	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1002	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1003	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1004	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1005	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1006	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1007	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1008	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1009	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1010	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1011	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1012	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1013	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1014	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1015	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1016	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1017	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1018	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1019	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1020	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1021	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1022	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1023	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1024	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1025	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1026	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1027	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1028	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1029	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1030	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1031	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1032	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1033	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1034	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1035	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1036	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1037	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1038	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1039	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1040	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1041	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1042	1-216-025-91	RES,CHIP 100 5% 1/10W	
R1043	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1044	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1045	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1046	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1047	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1048	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1049	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1050	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1051	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1052	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1053	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1054	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1055	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1056	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1057	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1058	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1059	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1060	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1061	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1062	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1063	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1064	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1065	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1066	1-216-695-11	METAL CHIP 68K 0.50% 1/10W	
R1067	1-216-691-11	METAL CHIP 47K 0.50% 1/10W	
R1074	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1075	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1076	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1077	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1078	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1079	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1080	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1081	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1082	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1083	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1084	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1085	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1086	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1087	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1088	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1089	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1090	1-216-677-11	METAL CHIP 12K 0.50% 1/10W	
R1091	1-216-695-11	METAL CHIP 68K 0.50% 1/10W	
R1092	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1093	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1094	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1095	1-216-295-91	SHORT 0	
R1096	1-216-691-11	METAL CHIP 47K 0.50% 1/10W	
R1097	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1098	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R1099	1-216-121-91	RES,CHIP 1M 5% 1/10W	

Rf.NO.	PART NO.	DESCRIPTION			REMARK
R1100	1-216-295-91	SHORT	0		
R1101	1-216-121-91	RES,CHIP	1M	5%	1/10W
R1102	1-216-295-91	SHORT	0		
R1103	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1104	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1105	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1106	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1107	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1108	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1109	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1110	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1111	1-216-658-11	METAL CHIP	2K	0.50%	1/10W
R1112	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1113	1-216-658-11	METAL CHIP	2K	0.50%	1/10W
R1114	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1115	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1116	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1117	1-216-658-11	METAL CHIP	2K	0.50%	1/10W
R1118	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1119	1-216-658-11	METAL CHIP	2K	0.50%	1/10W
R1120	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1121	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1122	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1123	1-216-658-11	METAL CHIP	2K	0.50%	1/10W
R1124	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1125	1-216-658-11	METAL CHIP	2K	0.50%	1/10W
R1126	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1127	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1128	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1129	1-216-658-11	METAL CHIP	2K	0.50%	1/10W
R1130	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1131	1-216-658-11	METAL CHIP	2K	0.50%	1/10W
R1132	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1133	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1134	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1135	1-216-658-11	METAL CHIP	2K	0.50%	1/10W
R1136	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1137	1-216-658-11	METAL CHIP	2K	0.50%	1/10W
R1138	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1139	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1140	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1141	1-216-658-11	METAL CHIP	2K	0.50%	1/10W
R1142	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1143	1-216-658-11	METAL CHIP	2K	0.50%	1/10W
R1144	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1145	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1146	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1147	1-216-658-11	METAL CHIP	2K	0.50%	1/10W
R1148	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1149	1-216-658-11	METAL CHIP	2K	0.50%	1/10W
R1150	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1151	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1152	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1153	1-216-658-11	METAL CHIP	2K	0.50%	1/10W
R1154	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1155	1-216-658-11	METAL CHIP	2K	0.50%	1/10W
R1156	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1157	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1158	1-216-001-00	RES,CHIP	10	5%	1/10W
R1159	1-216-001-00	RES,CHIP	10	5%	1/10W
R1160	1-216-001-00	RES,CHIP	10	5%	1/10W
R1161	1-216-001-00	RES,CHIP	10	5%	1/10W
R1162	1-216-001-00	RES,CHIP	10	5%	1/10W
R1163	1-216-001-00	RES,CHIP	10	5%	1/10W
R1164	1-216-001-00	RES,CHIP	10	5%	1/10W
R1165	1-216-001-00	RES,CHIP	10	5%	1/10W
R1166	1-216-001-00	RES,CHIP	10	5%	1/10W
R1167	1-216-001-00	RES,CHIP	10	5%	1/10W
R1168	1-216-001-00	RES,CHIP	10	5%	1/10W
R1169	1-216-001-00	RES,CHIP	10	5%	1/10W
R1170	1-216-001-00	RES,CHIP	10	5%	1/10W
R1171	1-216-001-00	RES,CHIP	10	5%	1/10W
R1172	1-216-001-00	RES,CHIP	10	5%	1/10W
R1173	1-216-001-00	RES,CHIP	10	5%	1/10W
R1174	1-216-001-00	RES,CHIP	10	5%	1/10W
R1175	1-216-001-00	RES,CHIP	10	5%	1/10W
R1176	1-216-001-00	RES,CHIP	10	5%	1/10W
R1177	1-216-001-00	RES,CHIP	10	5%	1/10W
R1178	1-216-001-00	RES,CHIP	10	5%	1/10W
R1179	1-216-001-00	RES,CHIP	10	5%	1/10W
R1180	1-216-001-00	RES,CHIP	10	5%	1/10W
R1181	1-216-001-00	RES,CHIP	10	5%	1/10W
R1182	1-216-001-00	RES,CHIP	10	5%	1/10W
R1183	1-216-001-00	RES,CHIP	10	5%	1/10W
R1184	1-216-001-00	RES,CHIP	10	5%	1/10W
R1185	1-216-001-00	RES,CHIP	10	5%	1/10W
R1186	1-216-001-00	RES,CHIP	10	5%	1/10W
R1187	1-216-001-00	RES,CHIP	10	5%	1/10W
R1188	1-216-001-00	RES,CHIP	10	5%	1/10W
R1189	1-216-001-00	RES,CHIP	10	5%	1/10W
R1190	1-216-001-00	RES,CHIP	10	5%	1/10W
R1191	1-216-001-00	RES,CHIP	10	5%	1/10W
R1192	1-216-001-00	RES,CHIP	10	5%	1/10W
R1193	1-216-001-00	RES,CHIP	10	5%	1/10W
R1194	1-216-001-00	RES,CHIP	10	5%	1/10W
R1195	1-216-001-00	RES,CHIP	10	5%	1/10W
R1196	1-216-001-00	RES,CHIP	10	5%	1/10W
R1197	1-216-001-00	RES,CHIP	10	5%	1/10W
R1198	1-216-001-00	RES,CHIP	10	5%	1/10W
R1199	1-216-001-00	RES,CHIP	10	5%	1/10W
R1200	1-216-001-00	RES,CHIP	10	5%	1/10W
R1201	1-216-001-00	RES,CHIP	10	5%	1/10W
R1202	1-216-001-00	RES,CHIP	10	5%	1/10W
R1203	1-216-001-00	RES,CHIP	10	5%	1/10W
R1204	1-216-001-00	RES,CHIP	10	5%	1/10W
R1205	1-216-001-00	RES,CHIP	10	5%	1/10W
R1206	1-216-001-00	RES,CHIP	10	5%	1/10W
R1207	1-216-001-00	RES,CHIP	10	5%	1/10W
R1208	1-216-001-00	RES,CHIP	10	5%	1/10W
R1209	1-216-001-00	RES,CHIP	10	5%	1/10W
R1210	1-216-001-00	RES,CHIP	10	5%	1/10W
R1211	1-216-001-00	RES,CHIP	10	5%	1/10W
R1212	1-216-001-00	RES,CHIP	10	5%	1/10W
R1213	1-216-001-00	RES,CHIP	10	5%	1/10W
R1214	1-216-001-00	RES,CHIP	10	5%	1/10W
R1215	1-216-001-00	RES,CHIP	10	5%	1/10W
R1216	1-216-001-00	RES,CHIP	10	5%	1/10W
R1217	1-216-001-00	RES,CHIP	10	5%	1/10W
R1218	1-216-001-00	RES,CHIP	10	5%	1/10W
R1219	1-216-001-00	RES,CHIP	10	5%	1/10W

B Q

Rf.NO.	PART NO.	DESCRIPTION			REMARK
R1220	1-216-001-00	RES,CHIP	10	5%	1/10W
R1221	1-216-001-00	RES,CHIP	10	5%	1/10W
R1222	1-216-295-91	SHORT	0		
R1605	1-216-295-91	SHORT	0		
R1610	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1611	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1622	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1623	1-216-041-00	RES,CHIP	470	5%	1/10W
R1624	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1625	1-216-031-00	RES,CHIP	180	5%	1/10W
R1626	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1627	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1628	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1629	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1630	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1631	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1632	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1633	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1634	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1635	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1636	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1637	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1638	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1639	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1640	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1641	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1642	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1643	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1644	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1645	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1646	1-216-037-00	RES,CHIP	330	5%	1/10W
R1647	1-216-037-00	RES,CHIP	330	5%	1/10W
R1648	1-216-037-00	RES,CHIP	330	5%	1/10W
R1649	1-216-037-00	RES,CHIP	330	5%	1/10W

<TEST PIN>

TP1001	1-535-757-11	CHIP, CHECKER
TP1002	1-535-757-11	CHIP, CHECKER
TP1003	1-535-757-11	CHIP, CHECKER
TP1004	1-535-757-11	CHIP, CHECKER

<CRYSTAL>

X1001	1-767-999-21	VIBRATOR, CRYSTAL (7.8565MHz)
X1002	1-781-001-21	VIBRATOR, CRYSTAL (6.5536MHz)
X1003	1-781-000-21	VIBRATOR, CRYSTAL (9.8304MHz)

****

*	A-1275-156-A	Q COMPL

****

*	4-063-313-01	PANEL, Q
*	4-063-315-01	LAMP COVER
	7-682-947-01	SCREW +PSW 3X6

<CAPACITOR>

C2001	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2002	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2003	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2004	1-126-204-11	ELECT CHIP 47MF	20%	16V
C2005	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2006	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2007	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2008	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2010	1-163-235-11	CERAMIC CHIP 22PF	5%	50V
C2012	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2013	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2014	1-109-982-11	CERAMIC CHIP 1MF	10%	10V
C2015	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2016	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2017	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2018	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2019	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2020	1-126-204-11	ELECT CHIP 47MF	20%	16V
C2021	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2022	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2023	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2024	1-126-204-11	ELECT CHIP 47MF	20%	16V
C2025	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2026	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2027	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2028	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2029	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2030	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V

<CONNECTOR>

CN2001	1-779-590-12	CONNECTOR (D SUB) 15P
CN2002	1-779-590-12	CONNECTOR (D SUB) 15P
CN2003	1-691-856-11	CONNECTOR, BOARD TO BOARD 60P
CN2004 *	1-506-468-11	PIN, CONNECTOR 3P

<DIODE>

D2001	8-719-800-76	DIODE 1SS226
D2002	8-719-800-76	DIODE 1SS226
D2003	8-719-800-76	DIODE 1SS226
D2004	8-719-800-76	DIODE 1SS226
D2005	8-719-800-76	DIODE 1SS226
D2006	8-719-800-76	DIODE 1SS226
D2007	8-719-800-76	DIODE 1SS226
D2008	8-719-800-76	DIODE 1SS226
D2009	8-719-800-76	DIODE 1SS226
D2010	8-719-800-76	DIODE 1SS226
D2011	8-719-800-76	DIODE 1SS226
D2012	8-719-800-76	DIODE 1SS226
D2013	8-719-800-76	DIODE 1SS226
D2014	8-719-800-76	DIODE 1SS226
D2015	8-719-800-76	DIODE 1SS226
D2016	8-719-800-76	DIODE 1SS226
D2033	8-719-946-89	DIODE GL5ED5
D2034	8-719-988-62	DIODE 1SS355

<FILTER>

FL2001	1-239-903-11	FILTER, CHIP EMI
FL2002	1-239-400-11	FILTER, CHIP EMI
FL2003	1-239-400-11	FILTER, CHIP EMI
FL2004	1-239-899-21	FILTER, CHIP EMI
FL2005	1-239-400-11	FILTER, CHIP EMI

Rf.NO.	PART NO.	DESCRIPTION				REMARK
FL2006	1-239-903-11	FILTER, CHIP EMI				
FL2007	1-239-903-11	FILTER, CHIP EMI				
FL2008	1-239-035-11	FILTER, EMI (CHIP)				
FL2009	1-414-135-11	FERRITE	0UH			
FL2010	1-414-135-11	FERRITE	0UH			
FL2011	1-414-135-11	FERRITE	0UH			
FL2012	1-414-135-11	FERRITE	0UH			
FL2013	1-414-135-11	FERRITE	0UH			
FL2014	1-414-135-11	FERRITE	0UH			
	<IC>					
IC2001	8-752-391-61	IC CXD316-107Q				
IC2002	8-759-479-30	IC SN75C1167NS-E05				
IC2003	8-759-926-77	IC SN74HC541ANS				
IC2004	8-759-926-77	IC SN74HC541ANS				
IC2005	8-759-931-48	IC SN74LS629NS				
IC2006	8-759-926-77	IC SN74HC541ANS				
	<TRANSISTOR>					
Q2001	8-729-929-99	TRANSISTOR UMB11-TN				
	<RESISTOR>					
R2001	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2002	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2003	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2004	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	
R2005	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	
R2006	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2007	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2008	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	
R2009	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2010	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2011	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	
R2012	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2013	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2014	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2015	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2016	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2017	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2018	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2019	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2020	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2021	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2022	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2023	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2024	1-216-295-91	SHORT	0			
R2025	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2026	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2027	1-216-295-91	SHORT	0			
R2028	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2029	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2030	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2031	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2032	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2033	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2034	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2035	1-216-025-91	RES,CHIP	100	5%	1/10W	

Rf.NO.	PART NO.	DESCRIPTION				REMARK
R2036	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2037	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2038	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2039	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2040	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2041	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2042	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2043	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2044	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2045	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2046	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2047	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2048	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2049	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2050	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2051	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2052	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2053	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2054	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2055	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2056	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2057	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2058	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2059	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2060	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2061	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2062	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2063	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2064	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2065	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2066	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2067	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2068	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2069	1-216-089-91	RES,CHIP	47K	5%	1/10W	
R2070	1-216-089-91	RES,CHIP	47K	5%	1/10W	
R2071	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2072	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2073	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2074	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2075	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R2076	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R2077	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2078	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2079	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2080	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2081	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2082	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R2083	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2084	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2085	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2086	1-216-025-91	RES,CHIP	100	5%	1/10W	
R2087	1-216-089-91	RES,CHIP	47K	5%	1/10W	
R2088	1-216-089-91	RES,CHIP	47K	5%	1/10W	
R2089	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R2090	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R2091	1-216-089-91	RES,CHIP	47K	5%	1/10W	
R2092	1-216-089-91	RES,CHIP	47K	5%	1/10W	
R2093	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R2094	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R2095	1-216-089-91	RES,CHIP	47K	5%	1/10W	

Q

Rf.NO.	PART NO.	DESCRIPTION			REMARK
R2096	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2097	1-216-047-91	RES,CHIP	820	5%	1/10W
R2098	1-216-033-00	RES,CHIP	220	5%	1/10W
R2099	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2100	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2101	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2102	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2103	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2104	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2105	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2106	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2107	1-216-029-00	RES,CHIP	150	5%	1/10W
R2108	1-216-029-00	RES,CHIP	150	5%	1/10W
R2109	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2110	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2111	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2112	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2113	1-216-295-91	SHORT	0		
R2114	1-216-295-91	SHORT	0		
R2115	1-216-295-91	SHORT	0		
R2116	1-216-295-91	SHORT	0		
R2117	1-216-295-91	SHORT	0		
R2118	1-216-295-91	SHORT	0		
R2119	1-216-295-91	SHORT	0		
R2120	1-216-295-91	SHORT	0		
R2121	1-216-295-91	SHORT	0		
R2122	1-216-295-91	SHORT	0		
		<VARIABLE RESISTOR>			
RV2001	1-230-303-00	RES, ADJ, CERMET 1K			
		<SWITCH>			
SW2001	1-771-446-11	SWITCH, ROTARY			
SW2002	1-771-446-11	SWITCH, ROTARY			
SW2003	1-771-446-11	SWITCH, ROTARY			
		<TEST PIN>			
TP2001	1-535-757-11	CHIP, CHECKER			
TP2002	1-535-757-11	CHIP, CHECKER			
TP2003	1-535-757-11	CHIP, CHECKER			

****

MISCELLANEOUS
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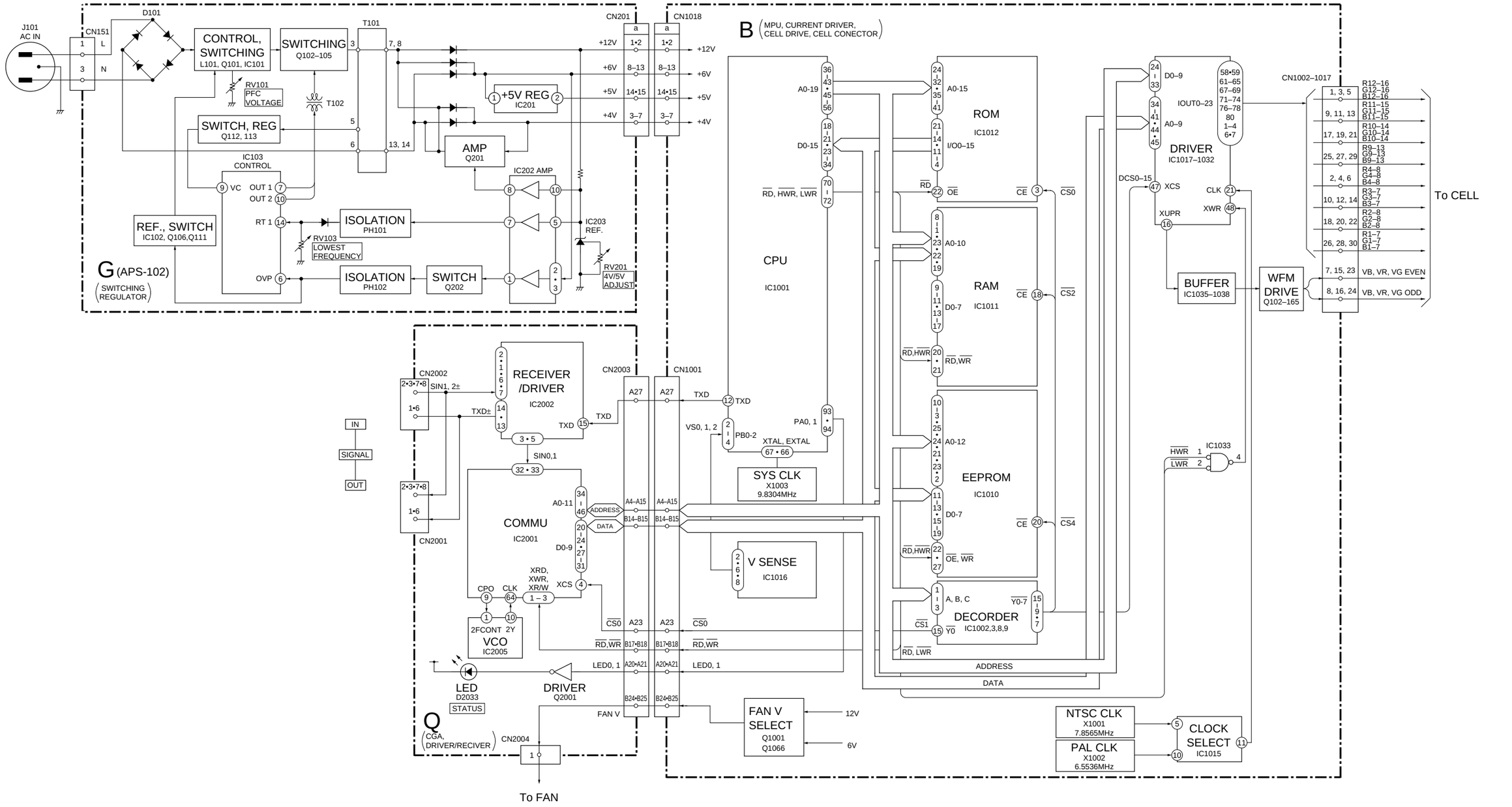
J101	⚠1-540-051-12	INLET AC	

SECTION 7
BLOCK DIAGRAM



SECTION 8
DIAGRAMS

8-1. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics.
- All electrolytics are in 50 V unless otherwise specified.
- All resistors are in ohms, 1/4 W in resistance, 1/10W in chip resistance.
  kΩ = 1000 Ω, MΩ = 1000k Ω
-  : nonflammable resistor.
-  : fusible resistor.
- △ : internal component.
-  : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Voltage value is the reference value between it and the earth, when signal is received from JME-UA200 (digital multi-meter used : 10 M ohms/V DC).
- Unit of voltage values is V (volt).

Reference information

RESISTOR	RN	: METAL FILM
	RC	: SOLID
	FPRD	: NONFRAMMABLE CARBON
	FUSE	: NONFLAMMABLE FUSIBLE
	RS	: NONFLAMMABLE METAL OXIDE
	RB	: NONFLAMMABLE CEMENT
	RW	: NONFLAMMABLE WIREWOUND
	※	: ADJUSTMENT RESISTOR
COIL	LF-8L	: MICRO INDUCTOR
CAPACITOR	TA	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

The components identified ⚠ marked are critical for safety.
Replace only with the part number specified.

Les composants identifiés par la marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

【使用上の注意】

- ケミコン，タンタルを除くコンデンサで耐圧50 V以下のものは，その耐圧を省略。単位はすべてμF（pはpF）
- ケミコン，タンタルのコンデンサで耐圧50Vは省略。
- 抵抗で指示のないものは1/4 W，チップ抵抗は1/10 Wです。
  単位は全てΩ。k Ω = 1000 Ω，M Ω = 1000 kΩ
-  印はヒューズ抵抗。
-  印は不燃性抵抗。
- △ 印は内蔵部品。
-  印はパネル表示および調整名称。
- 半固定抵抗および可変抵抗器の特性カーブ（B）は省略。
- 電圧値は，JME-UA200より信号を受信したときの対アース間の参考値。
  （使用デジタルマルチメーター10 MΩ/V DC）
- 電圧値の単位は V（ボルト）

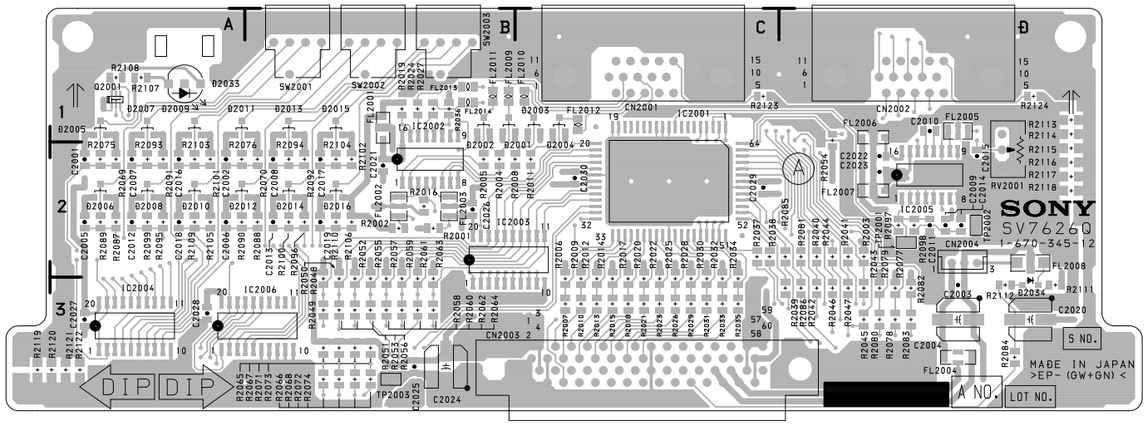
－部品特性省略表－

- 固定抵抗
  RN ：金属被膜
  RC ：ソリッド
  FPRD ：不燃性カーボン
  FUSE ：不燃性ヒューズ
  RS ：不燃性酸化金属被膜
  RB ：不燃性セメント
  RW ：不燃性巻線
  ※ ：調整抵抗

- マイクロインダクタ
  LF-8B ：マイクロインダクタ

- コンデンサ
  TA ：タンタル
  PS ：スチロール
  PP ：ポリプロピレン
  PT ：マイラ
  MPS ：メタライズドポリエステル
  MPP ：メタライズドポリプロピレン
  ALB ：バイポーラ
  ALT ：高温用
  ALR ：ハイリップル

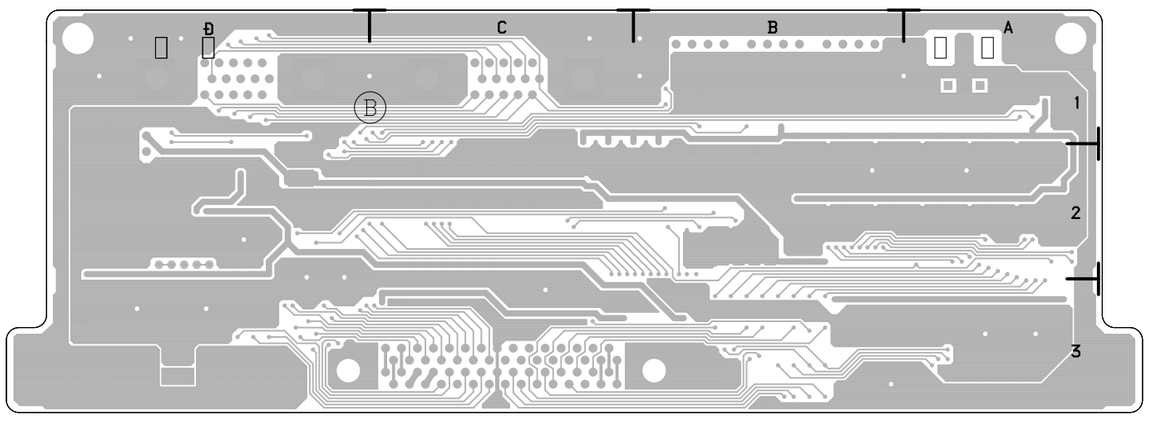
⚠印の部品は，安全性を維持するために，重要な部品です。従って交換時は，必ず指定の部品を使用してください。



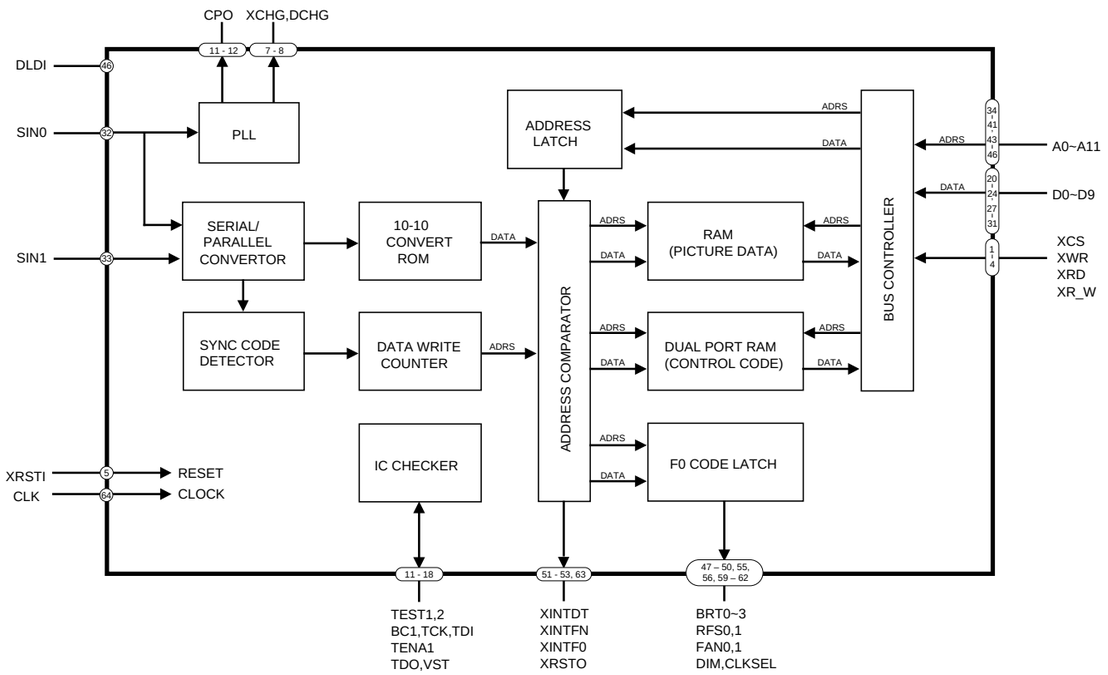
Q BOARD

D2001	B-1	D2010	A-2	IC2001	C-2	TP2001	D-2
D2002	B-1	D2011	A-1	IC2002	B-2	TP2002	D-2
D2003	C-1	D2012	A-2	IC2003	B-2	TP2003	B-3
D2004	C-1	D2013	B-1	IC2004	A-3		
D2005	A-1	D2014	B-2	IC2005	D-2	RV2001	D-2
D2006	A-2	D2015	B-1	IC2006	B-3		
D2007	A-1	D2016	B-2				
D2008	A-2	D2033	A-1	Q2001	A-1		
D2009	A-1	D2034	D-3				

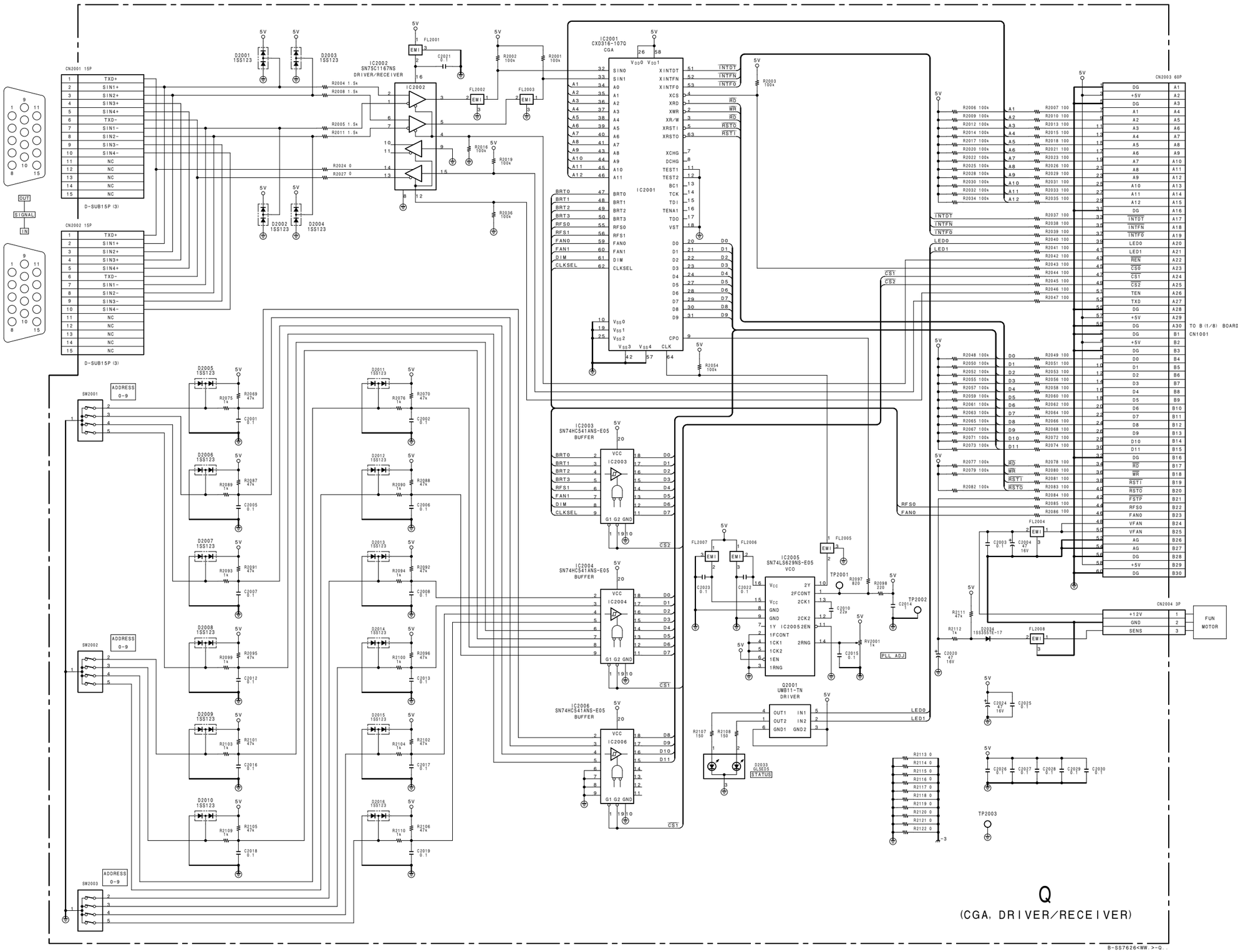
Q -A SIDE-
SUFFIX-12



Q -B SIDE-
SUFFIX-12



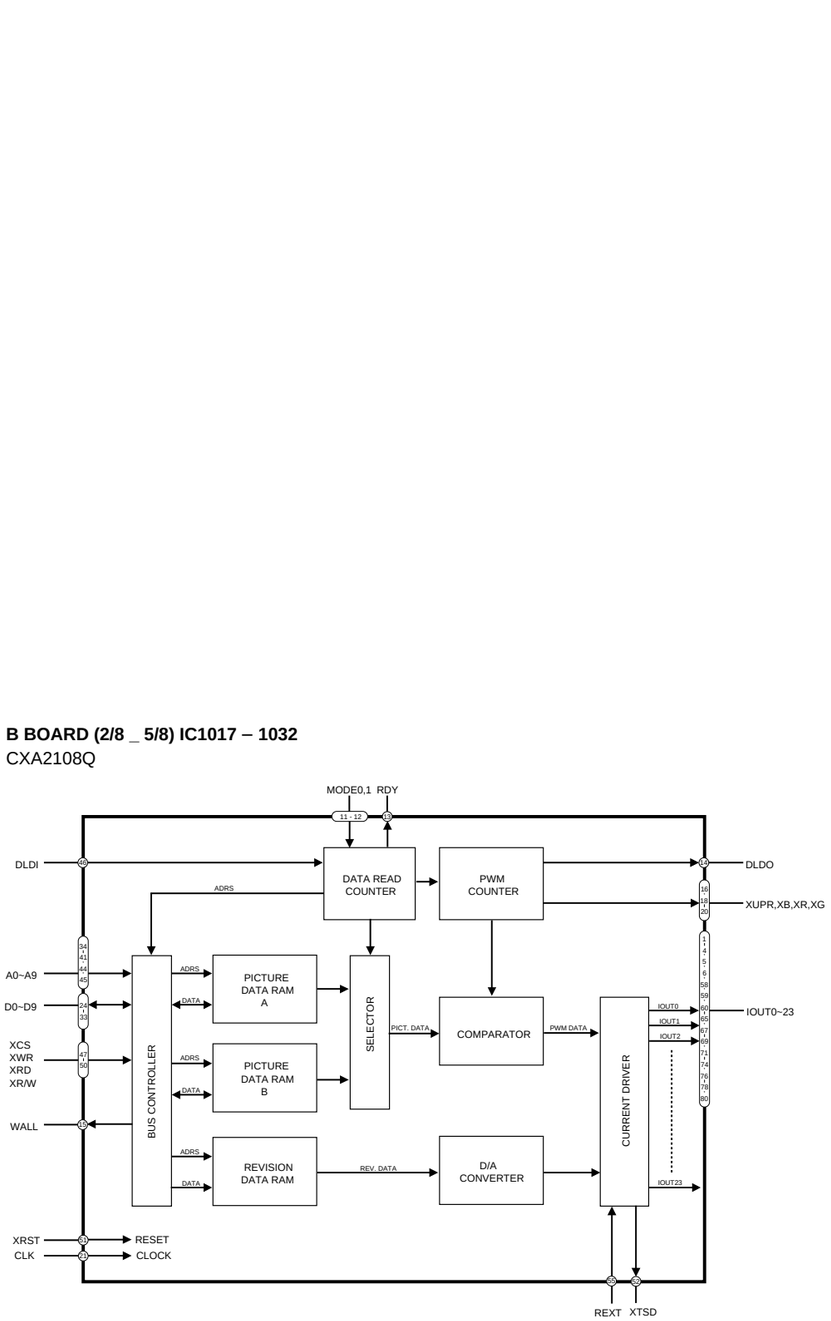
8-2

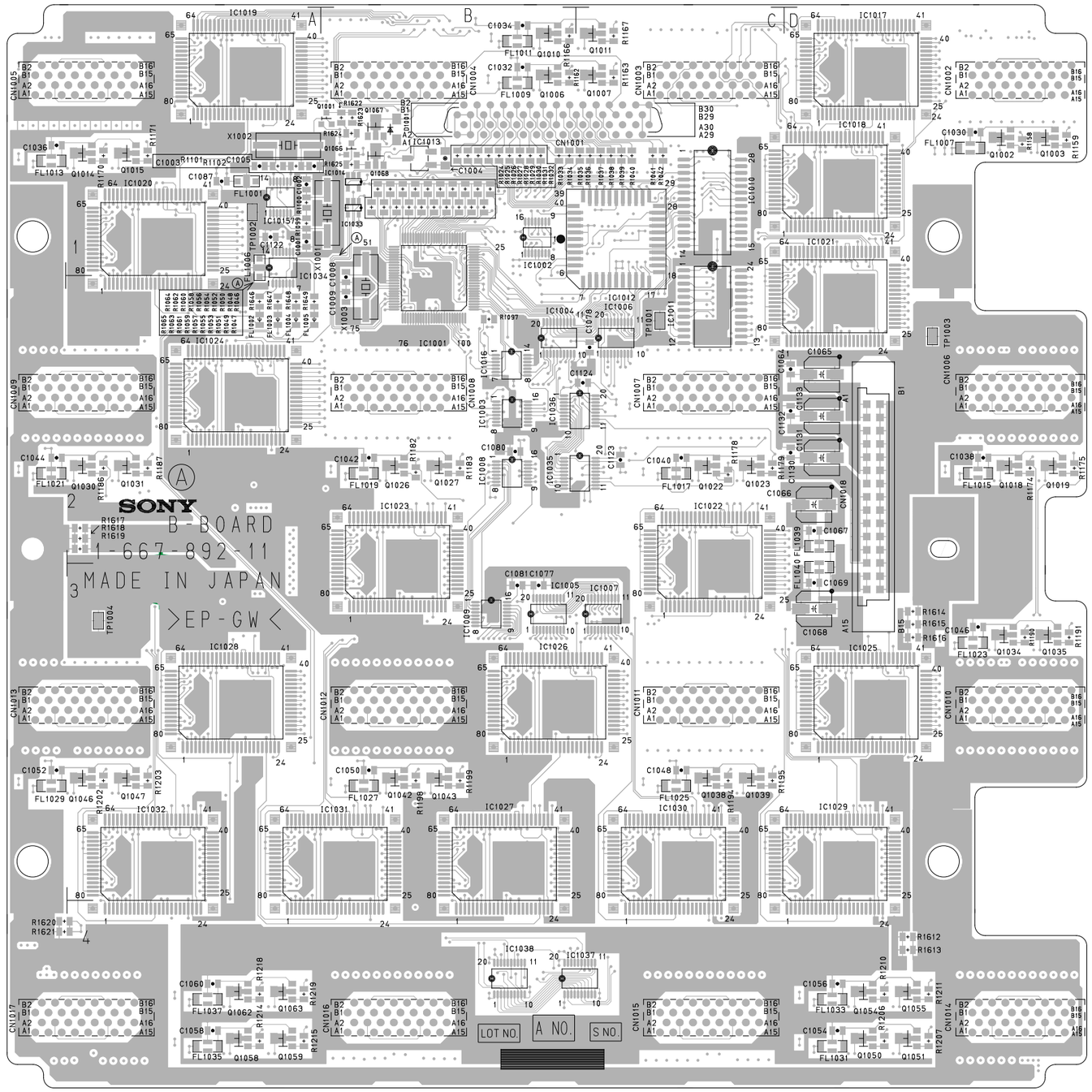


LDU-1530/1540

B BOARD (2/8 _ 5/8) IC1017 – 1032

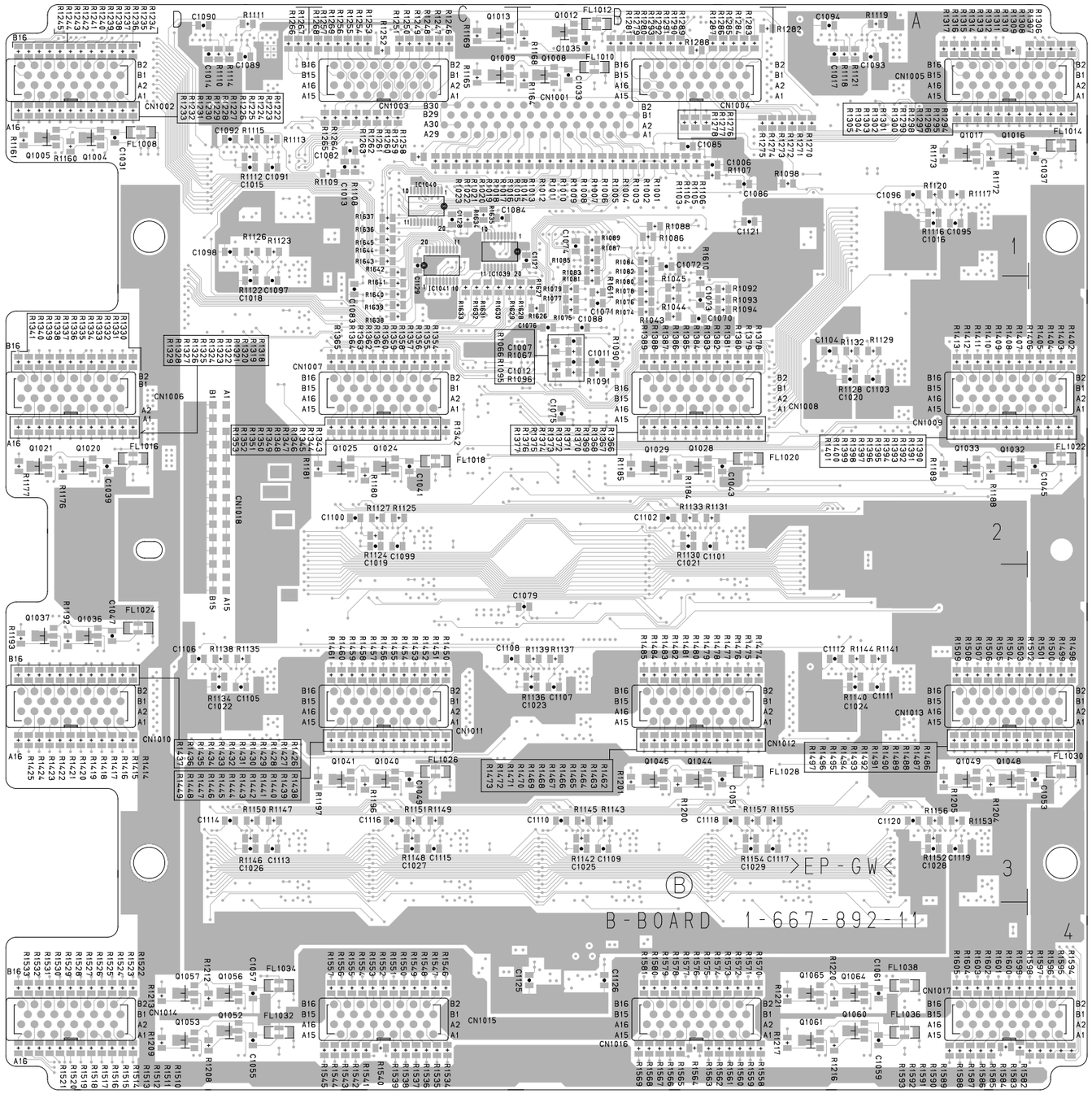
CXA2108Q





B -A SIDE-

SUFFIX-11

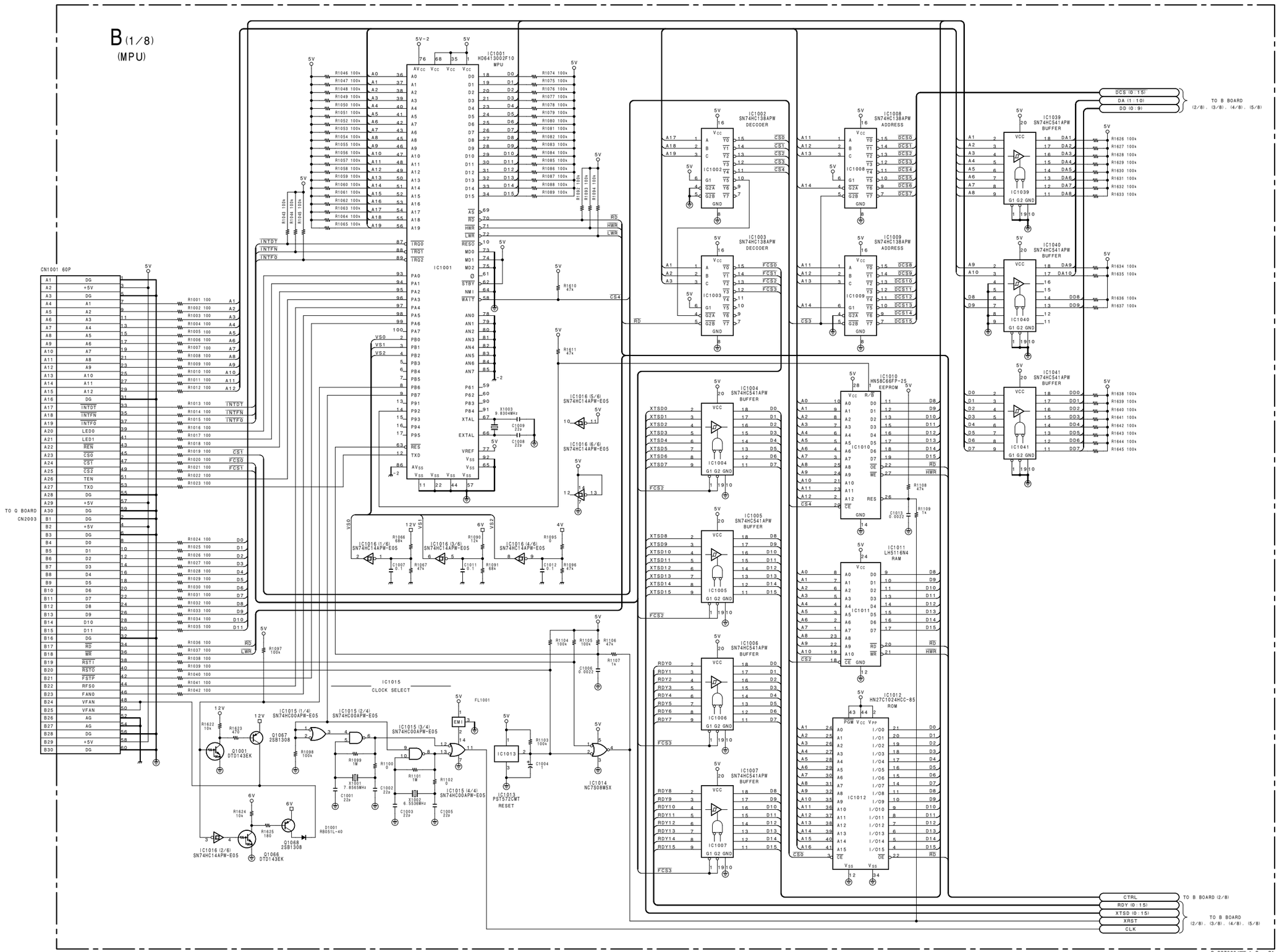


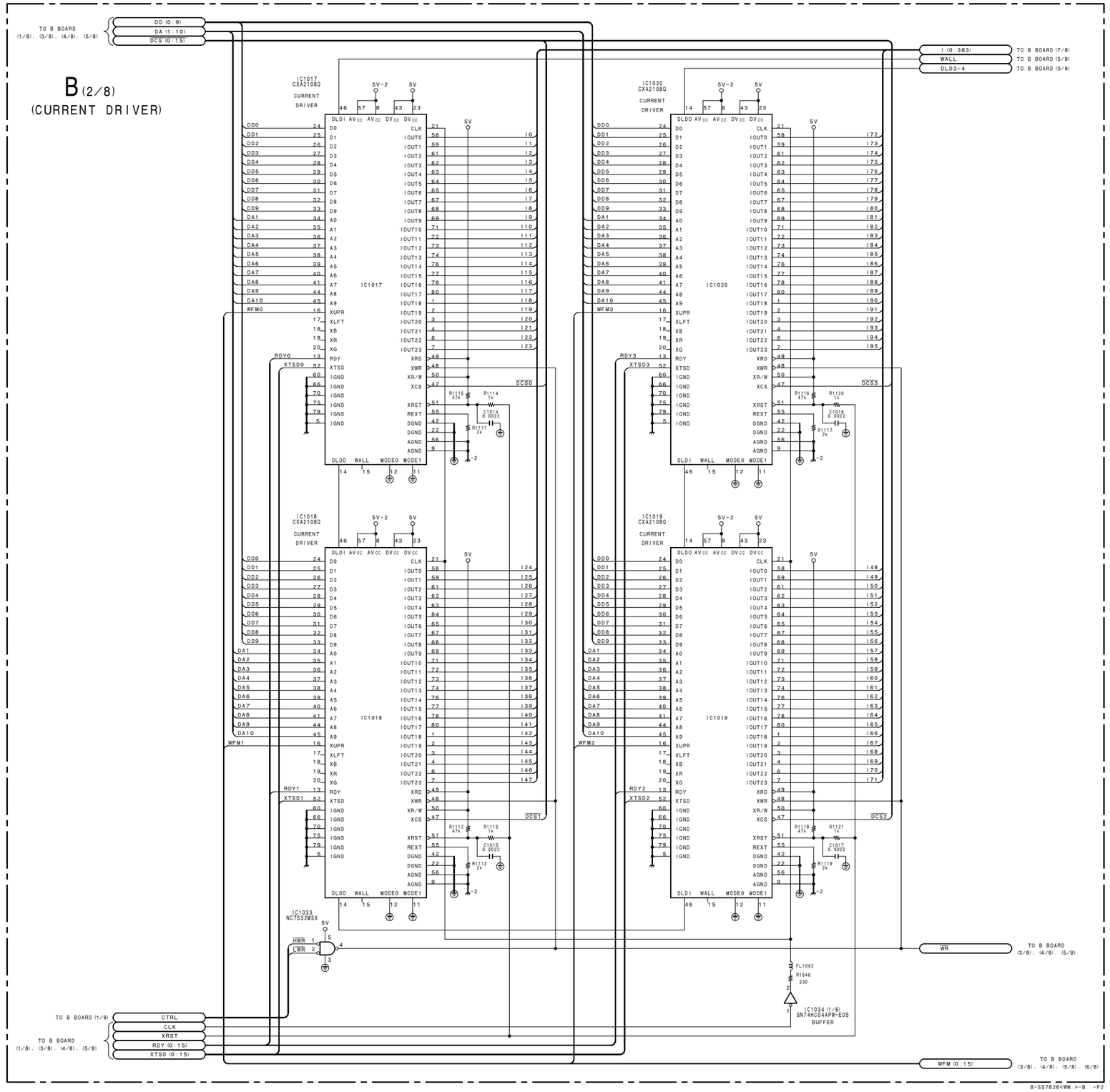
B -B SIDE-
SUFFIX-11

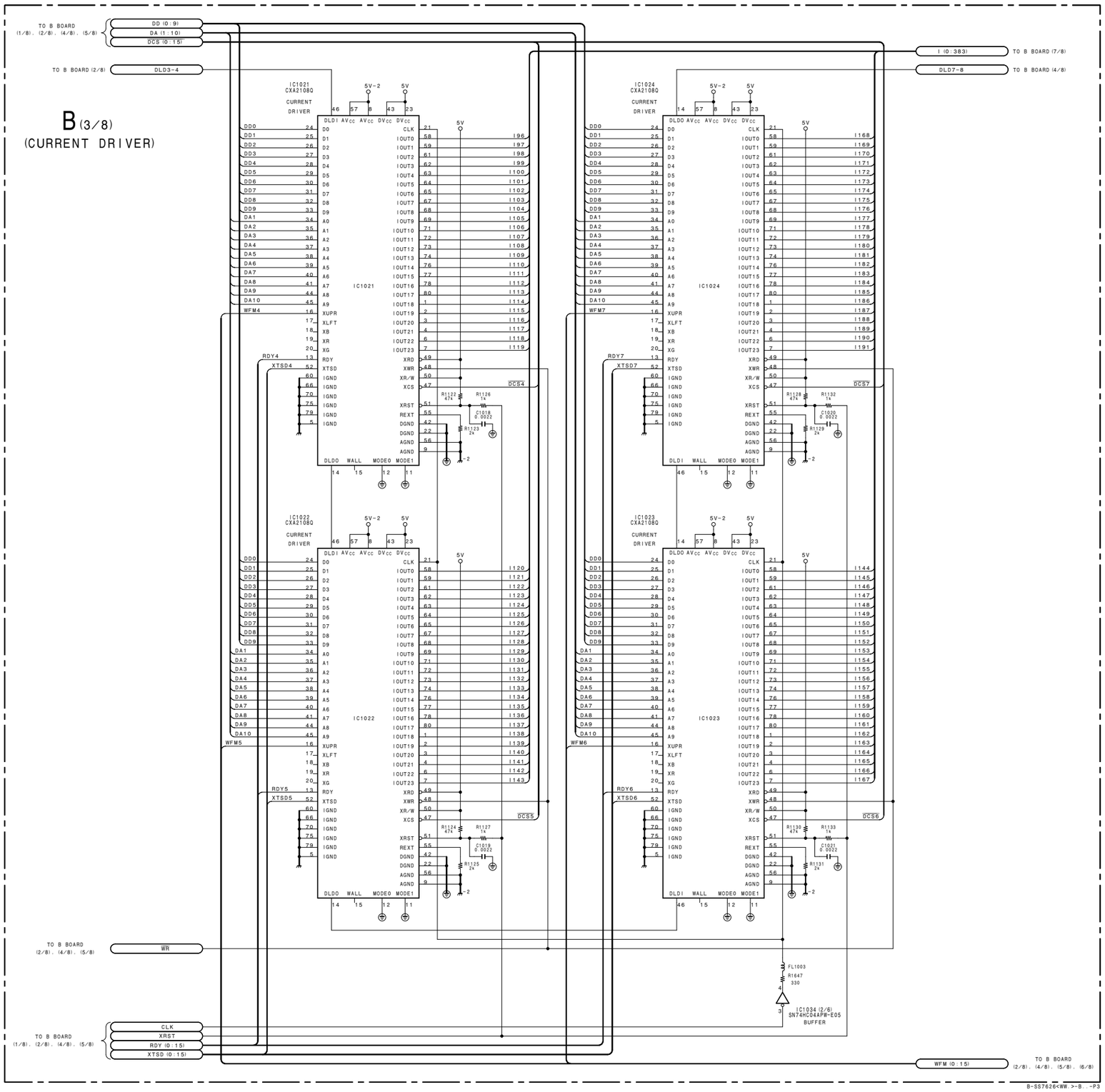
B BOARD

*: B SIDE

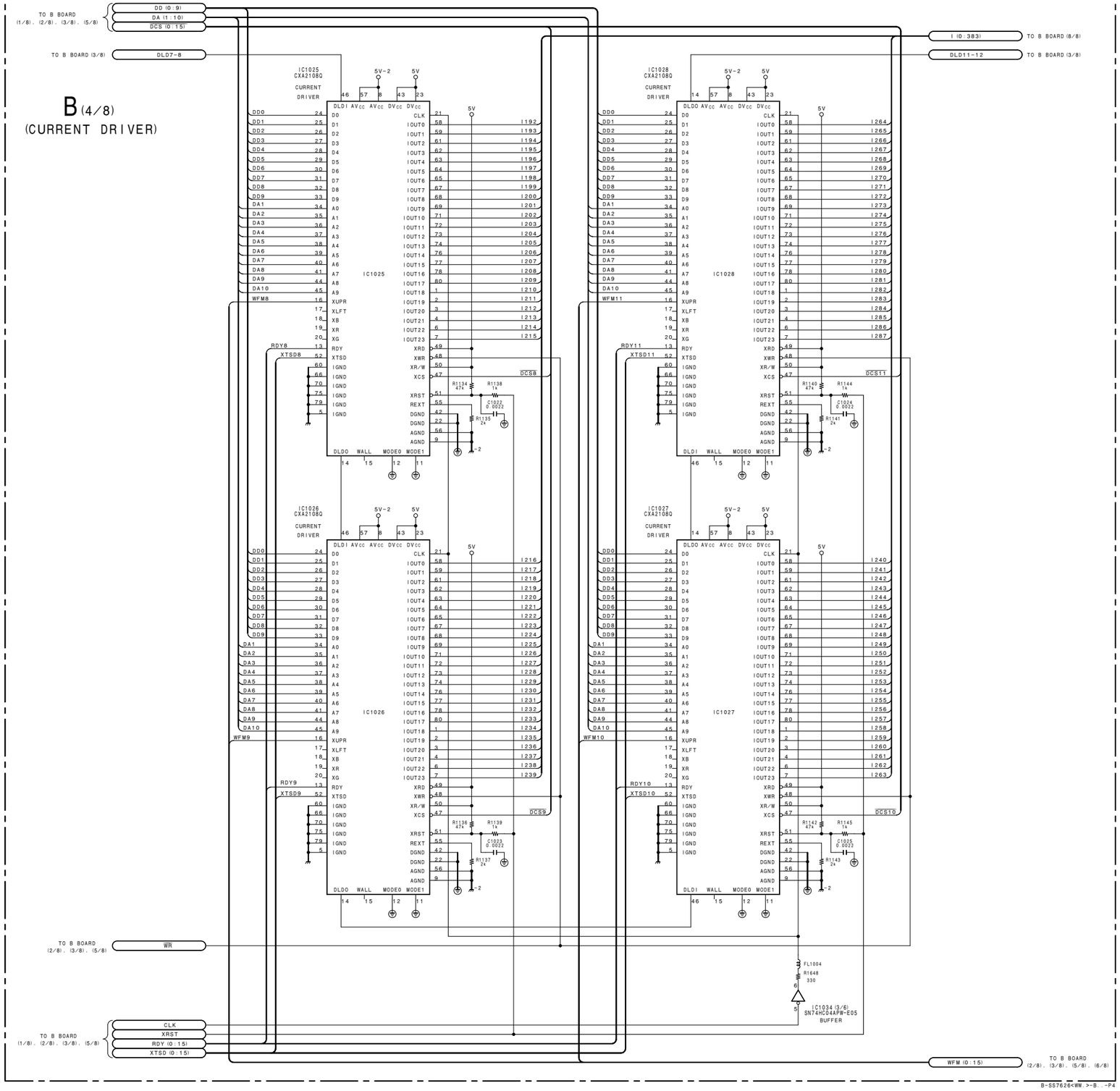
D1001	B-1	Q1016	*A-1
		Q1017	*A-1
IC1001	B-2	Q1018	D-2
IC1002	B-1	Q1019	D-2
IC1003	B-2	Q1020	*D-2
IC1004	B-2	Q1021	*D-2
IC1005	B-3	Q1022	C-2
IC1006	C-2	Q1023	C-2
IC1007	C-3	Q1024	*C-2
IC1008	B-2	Q1025	*C-2
IC1009	B-3	Q1026	B-2
IC1010	C-1	Q1027	B-2
IC1011	C-2	Q1028	*B-2
IC1012	C-1	Q1029	*B-2
IC1013	B-1	Q1030	A-2
IC1014	B-1	Q1031	A-2
IC1015	A-1	Q1032	*A-2
IC1016	B-2	Q1033	*A-2
IC1017	D-1	Q1034	D-3
IC1018	D-1	Q1035	D-3
IC1019	A-1	Q1036	*D-3
IC1020	A-1	Q1037	*D-3
IC1021	D-2	Q1038	C-3
IC1022	C-2	Q1039	C-3
IC1023	B-2	Q1040	*C-3
IC1024	A-2	Q1041	*C-3
IC1025	D-3	Q1042	B-3
IC1026	B-3	Q1043	B-3
IC1027	B-3	Q1044	*B-3
IC1028	A-3	Q1045	*B-3
IC1029	D-3	Q1046	A-3
IC1030	C-3	Q1047	A-3
IC1031	B-3	Q1048	*A-3
IC1032	A-3	Q1049	*A-3
IC1033	B-1	Q1050	D-4
IC1034	A-1	Q1051	D-4
IC1035	C-2	Q1052	*D-4
IC1036	C-2	Q1053	*D-4
IC1037	C-4	Q1054	D-4
IC1038	B-4	Q1055	D-4
IC1039	*C-1	Q1056	*D-4
IC1040	*C-1	Q1057	*D-4
IC1041	*C-1	Q1058	A-4
		Q1059	A-4
Q1001	B-1	Q1060	*A-4
Q1002	D-1	Q1061	*A-4
Q1003	D-1	Q1062	A-4
Q1004	*D-1	Q1063	A-4
Q1005	*D-1	Q1064	*A-4
Q1006	B-1	Q1065	*A-4
Q1007	C-1	Q1066	B-1
Q1008	*B-1	Q1067	B-1
Q1009	*C-1	Q1068	B-1
Q1010	B-1		
Q1011	C-1	TPI1001	C-2
Q1012	*B-1	TPI1002	A-1
Q1013	*C-1	TPI1003	D-2
Q1014	A-1	TPI1004	A-3
Q1015	A-1		

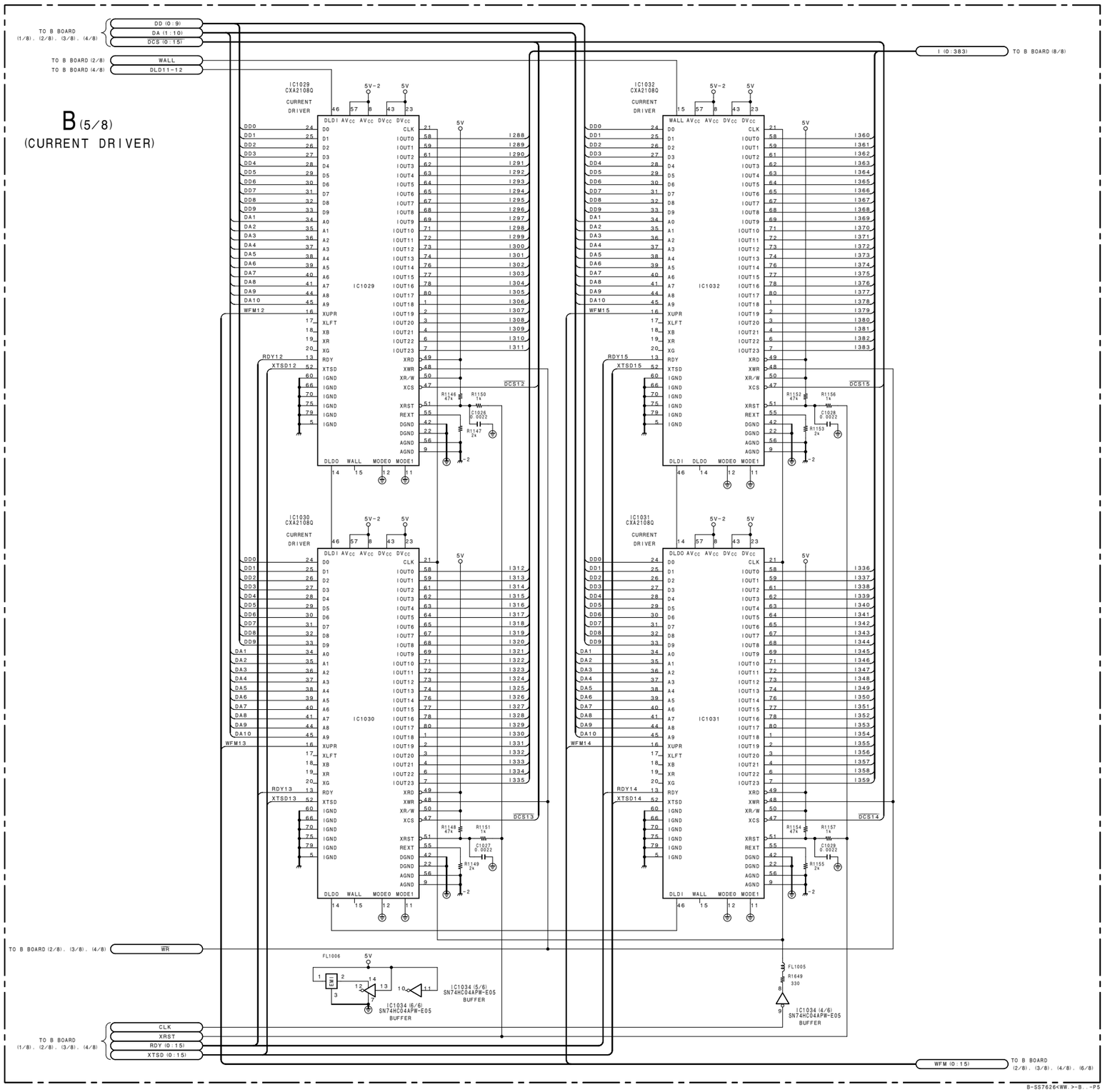

B (1/8)
(MPU)
IC1001
HD6413002F10
MPU
IC1002
SN74HC138APW
DECODER
IC1003
SN74HC138APW
DECODER
IC1008
SN74HC138APW
ADDRESS
IC1009
SN74HC138APW
ADDRESS
IC1039
SN74HC541APW
BUFFER
IC1040
SN74HC541APW
BUFFER
IC1041
SN74HC541APW
BUFFER
IC1004
SN74HC541APW
BUFFER
IC1005
SN74HC541APW
BUFFER
IC1006
SN74HC541APW
BUFFER
IC1007
SN74HC541APW
BUFFER
IC1010
HN58C66FP-25
EEPROM
IC1011
LH5116N4
RAM
IC1012
HN27C1024HCC-85
ROM
IC1015
CLOCK SELECT
IC1015 (1/4)
SN74HC00APW-E05
IC1015 (2/4)
SN74HC00APW-E05
IC1015 (3/4)
SN74HC00APW-E05
IC1015 (4/4)
SN74HC00APW-E05
IC1016 (1/6)
SN74HC14APW-E05
IC1016 (2/6)
SN74HC14APW-E05
IC1016 (3/6)
SN74HC14APW-E05
IC1016 (4/6)
SN74HC14APW-E05
IC1016 (5/6)
SN74HC14APW-E05
IC1016 (6/6)
SN74HC14APW-E05
IC1013
PST572CMT
RESET
IC1014
NC7S08M5X
CN1001 60P
TO Q BOARD
CN2003
Q1001
DTD143EK
Q1067
2SB1308
Q1066
DTD143EK
Q1068
2SB1308
D1001
RB051L-40
FL1001
X1003
9.8304MHz
X1001
7.8565MHz
X1002
6.5536MHz
TO B BOARD
(2/8), (3/8), (4/8), (5/8)
DCS (0:15)
DA (1:10)
DD (0:9)
CTRL
RDY (0:15)
XTSD (0:15)
XRST
CLK
TO B BOARD (2/8)
B-SS7626<WW.>-B..-P1


B (2/8)
(CURRENT DRIVER)
TO B BOARD (1/8), (3/8), (4/8), (5/8)
DD (0:9)
DA (1:10)
DCS (0:15)
I (0:383)
WALL
DLD3-4
TO B BOARD (7/8)
TO B BOARD (5/8)
TO B BOARD (3/8)
IC1017 CXA2108Q CURRENT DRIVER
IC1020 CXA2108Q CURRENT DRIVER
IC1018 CXA2108Q CURRENT DRIVER
IC1019 CXA2108Q CURRENT DRIVER
5V-2
5V
RDY0
XTSD0
RDY3
XTSD3
RDY1
XTSD1
RDY2
XTSD2
DCS0
DCS3
DCS1
DCS2
WFM1
WFM2
IC1033 NC7S32M5X
HWR
LWR
WR
TO B BOARD (3/8), (4/8), (5/8)
FL1002
R1646 330
IC1034 (1/6) SN74HC04APW-E05 BUFFER
TO B BOARD (1/8)
CTRL
CLK
XRST
TO B BOARD (1/8), (3/8), (4/8), (5/8)
RDY (0:15)
XTSD (0:15)
WFM (0:15)
TO B BOARD (3/8), (4/8), (5/8), (6/8)
B-SS7626<WW.>-B..-P2

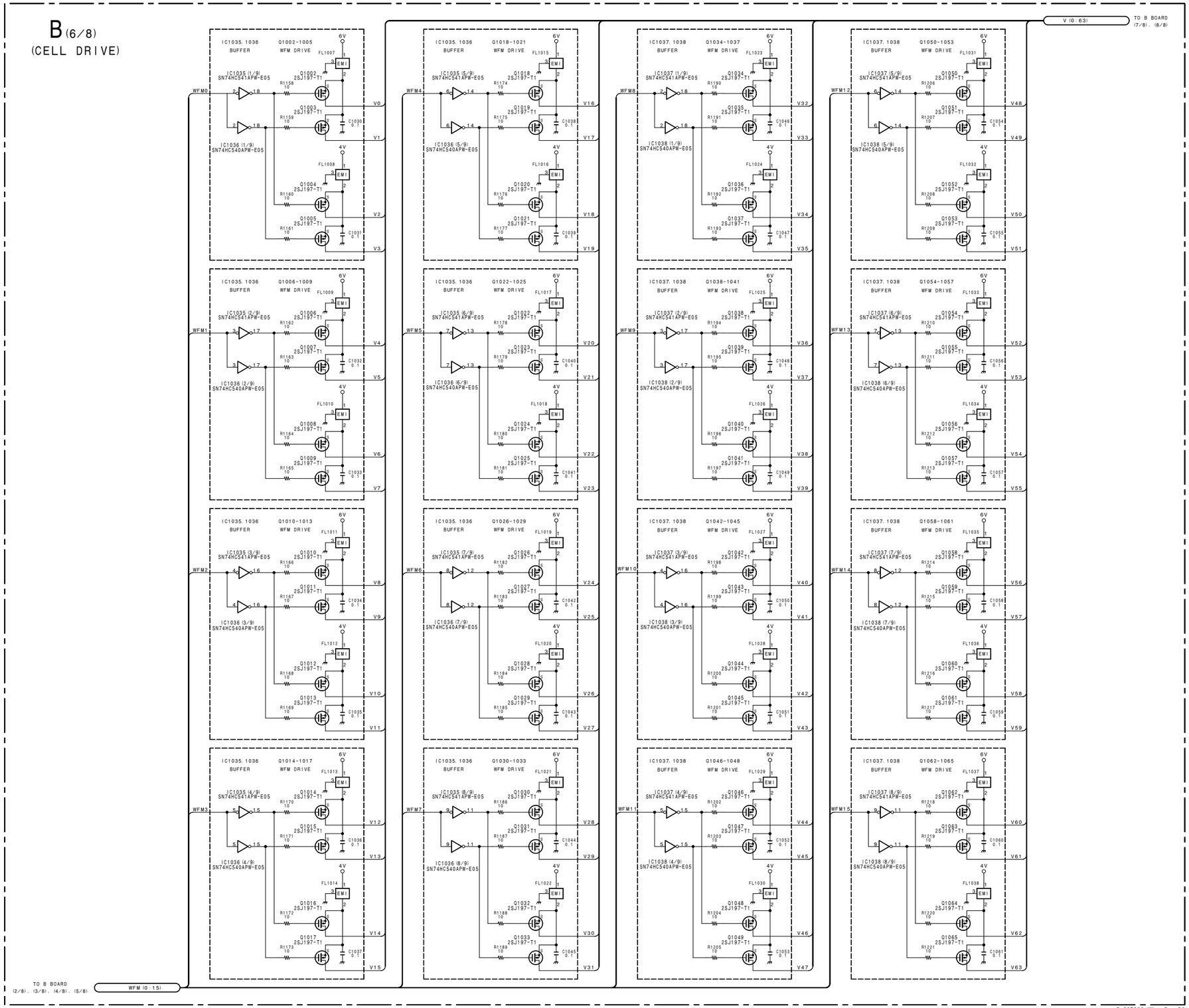

TO B BOARD (1/8), (2/8), (4/8), (5/8)
DD (0:9)
DA (1:10)
DCS (0:15)
TO B BOARD (2/8)
DLD3-4
B (3/8)
(CURRENT DRIVER)
IC1021 CXA2108Q CURRENT DRIVER
IC1022 CXA2108Q CURRENT DRIVER
IC1023 CXA2108Q CURRENT DRIVER
IC1024 CXA2108Q CURRENT DRIVER
5V-2
5V
WFM4
WFM5
WFM6
WFM7
RDY4
RDY5
RDY6
RDY7
XTSD4
XTSD5
XTSD6
XTSD7
DCS4
DCS5
DCS6
DCS7
I (0:383)
TO B BOARD (7/8)
DLD7-8
TO B BOARD (4/8)
TO B BOARD (2/8), (4/8), (5/8)
WR
TO B BOARD (1/8), (2/8), (4/8), (5/8)
CLK
XRST
RDY (0:15)
XTSD (0:15)
FL1003
R1647 330
IC1034 (2/6) SN74HCD04PW-E05 BUFFER
WFM (0:15)
TO B BOARD (2/8), (4/8), (5/8), (6/8)
B-SS7626<WW.>-B..-P3

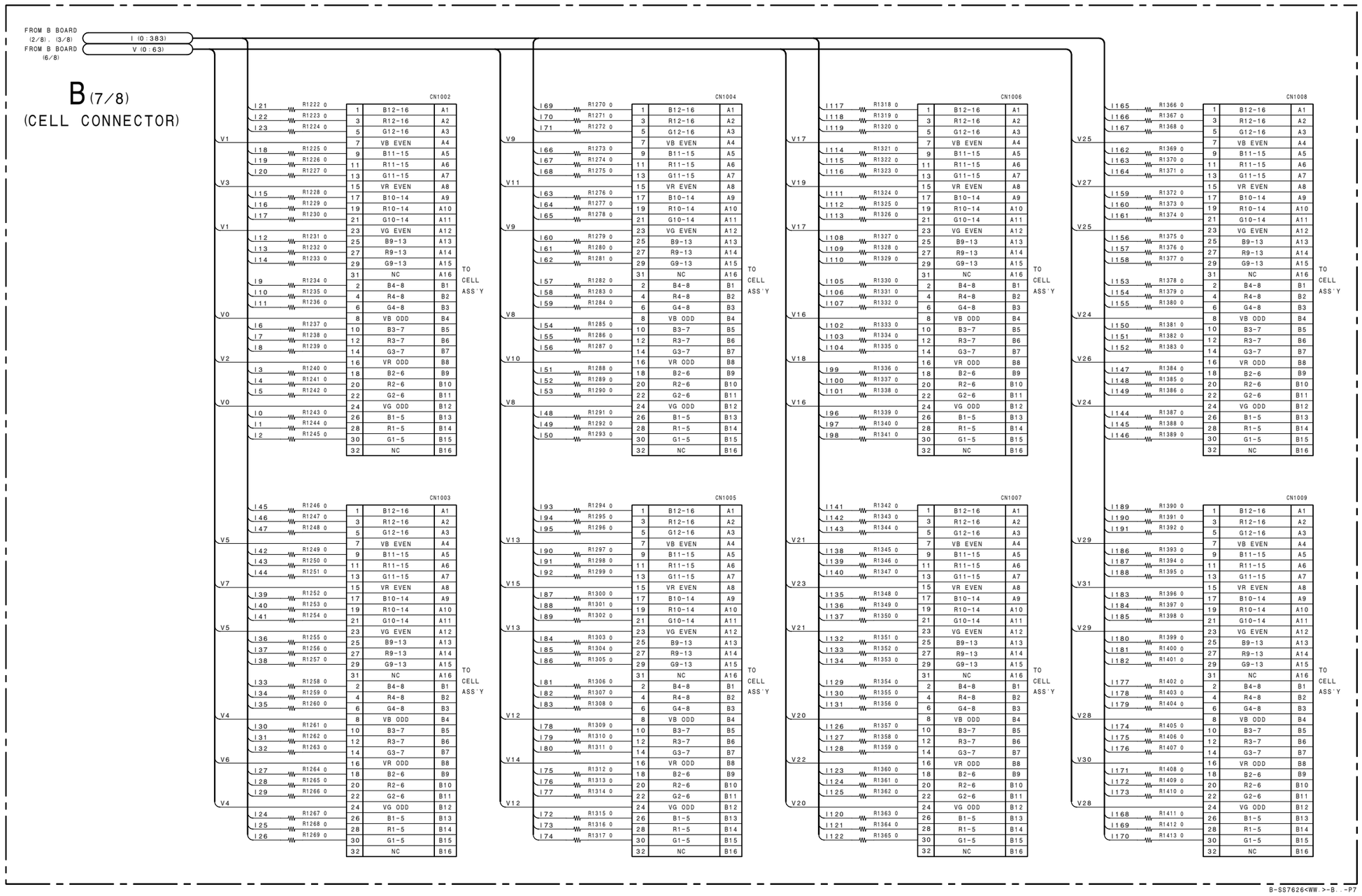
B (4/8)
(CURRENT DRIVER)




B (5/8)
(CURRENT DRIVER)
TO B BOARD (1/8), (2/8), (3/8), (4/8)
DD (0:9)
DA (1:10)
DCS (0:15)
TO B BOARD (2/8)
WALL
TO B BOARD (4/8)
DLD11-12
I (0:383)
TO B BOARD (8/8)
IC1029 CXA2108Q CURRENT DRIVER
IC1030 CXA2108Q CURRENT DRIVER
IC1031 CXA2108Q CURRENT DRIVER
IC1032 CXA2108Q CURRENT DRIVER
5V-2
5V
RDY12
XTSD12
RDY13
XTSD13
RDY14
XTSD14
RDY15
XTSD15
WFM12
WFM13
WFM14
WFM15
DCST12
DCST13
DCST14
DCST15
R1146 47k
R1150 1k
C1026 0.0022
R1147 2k
R1148 47k
R1151 1k
C1027 0.0022
R1149 2k
R1154 47k
R1156 1k
C1028 0.0022
R1153 2k
R1155 2k
R1157 1k
C1029 0.0022
TO B BOARD (2/8), (3/8), (4/8)
WR
FL1006
IC1034 (5/6) SN74HC04APW-E05 BUFFER
FL1005
R1649 330
IC1034 (4/6) SN74HC04APW-E05 BUFFER
TO B BOARD (1/8), (2/8), (3/8), (4/8)
CLK
XRST
RDY (0:15)
XTSD (0:15)
WFM (0:15)
TO B BOARD (2/8), (3/8), (4/8), (6/8)
B-SS7626<WW.>-B...-P5

B (6/8)
(CELL DRIVE)




FROM B BOARD (2/8), (3/8)
I (0:383)
FROM B BOARD (6/8)
V (0:63)
B (7/8)
(CELL CONNECTOR)
CN1002
CN1003
CN1004
CN1005
CN1006
CN1007
CN1008
CN1009
TO CELL ASS'Y
B-SS7626<WW.>-B.-P7

FROM B BOARD (4/8), (5/8)
FROM B BOARD (6/8)

I (0:383)
V (0:63)

B (8/8)
(CELL CONNECTOR)

CN1010

1	B12-16	A1
3	R12-16	A2
5	G12-16	A3
7	VB EVEN	A4
9	B11-15	A5
11	R11-15	A6
13	G11-15	A7
15	VR EVEN	A8
17	B10-14	A9
19	R10-14	A10
21	G10-14	A11
23	VG EVEN	A12
25	B9-13	A13
27	R9-13	A14
29	G9-13	A15
31	NC	A16
2	B4-8	B1
4	R4-8	B2
6	G4-8	B3
8	VB ODD	B4
10	B3-7	B5
12	R3-7	B6
14	G3-7	B7
16	VR ODD	B8
18	B2-6	B9
20	R2-6	B10
22	G2-6	B11
24	VG ODD	B12
26	B1-5	B13
28	R1-5	B14
30	G1-5	B15
32	NC	B16

I213 R1414 0, I214 R1415 0, I215 R1416 0 — V33
I210 R1417 0, I211 R1418 0, I212 R1419 0 — V35
I207 R1420 0, I208 R1421 0, I209 R1422 0 — V33
I204 R1423 0, I205 R1424 0, I206 R1425 0 — V32
I201 R1426 0, I202 R1427 0, I203 R1428 0 — V34
I198 R1429 0, I199 R1430 0, I200 R1431 0 — V32
I195 R1432 0, I196 R1433 0, I197 R1434 0 — V34
I192 R1435 0, I193 R1436 0, I194 R1437 0 — V32

TO CELL ASS'Y

CN1011

1	B12-16	A1
3	R12-16	A2
5	G12-16	A3
7	VB EVEN	A4
9	B11-15	A5
11	R11-15	A6
13	G11-15	A7
15	VR EVEN	A8
17	B10-14	A9
19	R10-14	A10
21	G10-14	A11
23	VG EVEN	A12
25	B9-13	A13
27	R9-13	A14
29	G9-13	A15
31	NC	A16
2	B4-8	B1
4	R4-8	B2
6	G4-8	B3
8	VB ODD	B4
10	B3-7	B5
12	R3-7	B6
14	G3-7	B7
16	VR ODD	B8
18	B2-6	B9
20	R2-6	B10
22	G2-6	B11
24	VG ODD	B12
26	B1-5	B13
28	R1-5	B14
30	G1-5	B15
32	NC	B16

I237 R1438 0, I238 R1439 0, I239 R1440 0 — V37
I234 R1441 0, I235 R1442 0, I236 R1443 0 — V39
I231 R1444 0, I232 R1445 0, I233 R1446 0 — V37
I228 R1447 0, I229 R1448 0, I230 R1449 0 — V36
I225 R1450 0, I226 R1451 0, I227 R1452 0 — V38
I222 R1453 0, I223 R1454 0, I224 R1455 0 — V36
I219 R1456 0, I220 R1457 0, I221 R1458 0 — V38
I216 R1459 0, I217 R1460 0, I218 R1461 0 — V36

TO CELL ASS'Y

CN1012

1	B12-16	A1
3	R12-16	A2
5	G12-16	A3
7	VB EVEN	A4
9	B11-15	A5
11	R11-15	A6
13	G11-15	A7
15	VR EVEN	A8
17	B10-14	A9
19	R10-14	A10
21	G10-14	A11
23	VG EVEN	A12
25	B9-13	A13
27	R9-13	A14
29	G9-13	A15
31	NC	A16
2	B4-8	B1
4	R4-8	B2
6	G4-8	B3
8	VB ODD	B4
10	B3-7	B5
12	R3-7	B6
14	G3-7	B7
16	VR ODD	B8
18	B2-6	B9
20	R2-6	B10
22	G2-6	B11
24	VG ODD	B12
26	B1-5	B13
28	R1-5	B14
30	G1-5	B15
32	NC	B16

I261 R1462 0, I262 R1463 0, I263 R1464 0 — V41
I258 R1465 0, I259 R1466 0, I260 R1467 0 — V43
I255 R1468 0, I256 R1469 0, I257 R1470 0 — V41
I252 R1471 0, I253 R1472 0, I254 R1473 0 — V40
I249 R1474 0, I250 R1475 0, I251 R1476 0 — V42
I246 R1477 0, I247 R1478 0, I248 R1479 0 — V40
I243 R1480 0, I244 R1481 0, I245 R1482 0 — V42
I240 R1483 0, I241 R1484 0, I242 R1485 0 — V40

TO CELL ASS'Y

CN1013

1	B12-16	A1
3	R12-16	A2
5	G12-16	A3
7	VB EVEN	A4
9	B11-15	A5
11	R11-15	A6
13	G11-15	A7
15	VR EVEN	A8
17	B10-14	A9
19	R10-14	A10
21	G10-14	A11
23	VG EVEN	A12
25	B9-13	A13
27	R9-13	A14
29	G9-13	A15
31	NC	A16
2	B4-8	B1
4	R4-8	B2
6	G4-8	B3
8	VB ODD	B4
10	B3-7	B5
12	R3-7	B6
14	G3-7	B7
16	VR ODD	B8
18	B2-6	B9
20	R2-6	B10
22	G2-6	B11
24	VG ODD	B12
26	B1-5	B13
28	R1-5	B14
30	G1-5	B15
32	NC	B16

I285 R1486 0, I286 R1487 0, I287 R1488 0 — V45
I282 R1489 0, I283 R1490 0, I284 R1491 0 — V47
I279 R1492 0, I280 R1493 0, I281 R1494 0 — V45
I276 R1495 0, I277 R1496 0, I278 R1497 0 — V44
I273 R1498 0, I274 R1499 0, I275 R1500 0 — V46
I270 R1501 0, I271 R1502 0, I272 R1503 0 — V44
I267 R1504 0, I268 R1505 0, I269 R1506 0 — V46
I264 R1507 0, I265 R1508 0, I266 R1509 0 — V44

TO CELL ASS'Y

CN1014

1	B12-16	A1
3	R12-16	A2
5	G12-16	A3
7	VB EVEN	A4
9	B11-15	A5
11	R11-15	A6
13	G11-15	A7
15	VR EVEN	A8
17	B10-14	A9
19	R10-14	A10
21	G10-14	A11
23	VG EVEN	A12
25	B9-13	A13
27	R9-13	A14
29	G9-13	A15
31	NC	A16
2	B4-8	B1
4	R4-8	B2
6	G4-8	B3
8	VB ODD	B4
10	B3-7	B5
12	R3-7	B6
14	G3-7	B7
16	VR ODD	B8
18	B2-6	B9
20	R2-6	B10
22	G2-6	B11
24	VG ODD	B12
26	B1-5	B13
28	R1-5	B14
30	G1-5	B15
32	NC	B16

I309 R1510 0, I310 R1511 0, I311 R1512 0 — V49
I306 R1513 0, I307 R1514 0, I308 R1515 0 — V51
I303 R1516 0, I304 R1517 0, I305 R1518 0 — V49
I300 R1519 0, I301 R1520 0, I302 R1521 0 — V48
I297 R1522 0, I298 R1523 0, I299 R1524 0 — V50
I294 R1525 0, I295 R1526 0, I296 R1527 0 — V48
I291 R1528 0, I292 R1529 0, I293 R1530 0 — V50
I288 R1531 0, I289 R1532 0, I290 R1533 0 — V48

TO CELL ASS'Y

CN1015

1	B12-16	A1
3	R12-16	A2
5	G12-16	A3
7	VB EVEN	A4
9	B11-15	A5
11	R11-15	A6
13	G11-15	A7
15	VR EVEN	A8
17	B10-14	A9
19	R10-14	A10
21	G10-14	A11
23	VG EVEN	A12
25	B9-13	A13
27	R9-13	A14
29	G9-13	A15
31	NC	A16
2	B4-8	B1
4	R4-8	B2
6	G4-8	B3
8	VB ODD	B4
10	B3-7	B5
12	R3-7	B6
14	G3-7	B7
16	VR ODD	B8
18	B2-6	B9
20	R2-6	B10
22	G2-6	B11
24	VG ODD	B12
26	B1-5	B13
28	R1-5	B14
30	G1-5	B15
32	NC	B16

I333 R1534 0, I334 R1535 0, I335 R1536 0 — V53
I330 R1537 0, I331 R1538 0, I332 R1539 0 — V55
I327 R1540 0, I328 R1541 0, I329 R1542 0 — V53
I324 R1543 0, I325 R1544 0, I326 R1545 0 — V52
I321 R1546 0, I322 R1547 0, I323 R1548 0 — V54
I318 R1549 0, I319 R1550 0, I320 R1551 0 — V52
I315 R1552 0, I316 R1553 0, I317 R1554 0 — V54
I312 R1555 0, I313 R1556 0, I314 R1557 0 — V52

TO CELL ASS'Y

CN1016

1	B12-16	A1
3	R12-16	A2
5	G12-16	A3
7	VB EVEN	A4
9	B11-15	A5
11	R11-15	A6
13	G11-15	A7
15	VR EVEN	A8
17	B10-14	A9
19	R10-14	A10
21	G10-14	A11
23	VG EVEN	A12
25	B9-13	A13
27	R9-13	A14
29	G9-13	A15
31	NC	A16
2	B4-8	B1
4	R4-8	B2
6	G4-8	B3
8	VB ODD	B4
10	B3-7	B5
12	R3-7	B6
14	G3-7	B7
16	VR ODD	B8
18	B2-6	B9
20	R2-6	B10
22	G2-6	B11
24	VG ODD	B12
26	B1-5	B13
28	R1-5	B14
30	G1-5	B15
32	NC	B16

I357 R1558 0, I358 R1559 0, I359 R1560 0 — V57
I354 R1561 0, I355 R1562 0, I356 R1563 0 — V59
I351 R1564 0, I352 R1565 0, I353 R1566 0 — V57
I348 R1567 0, I349 R1568 0, I350 R1569 0 — V56
I345 R1570 0, I346 R1571 0, I347 R1572 0 — V58
I342 R1573 0, I343 R1574 0, I344 R1575 0 — V56
I339 R1576 0, I340 R1577 0, I341 R1578 0 — V58
I336 R1579 0, I337 R1580 0, I338 R1581 0 — V56

TO CELL ASS'Y

CN1017

1	B12-16	A1
3	R12-16	A2
5	G12-16	A3
7	VB EVEN	A4
9	B11-15	A5
11	R11-15	A6
13	G11-15	A7
15	VR EVEN	A8
17	B10-14	A9
19	R10-14	A10
21	G10-14	A11
23	VG EVEN	A12
25	B9-13	A13
27	R9-13	A14
29	G9-13	A15
31	NC	A16
2	B4-8	B1
4	R4-8	B2
6	G4-8	B3
8	VB ODD	B4
10	B3-7	B5
12	R3-7	B6
14	G3-7	B7
16	VR ODD	B8
18	B2-6	B9
20	R2-6	B10
22	G2-6	B11
24	VG ODD	B12
26	B1-5	B13
28	R1-5	B14
30	G1-5	B15
32	NC	B16

I381 R1582 0, I382 R1583 0, I383 R1584 0 — V61
I378 R1585 0, I379 R1586 0, I380 R1587 0 — V63
I375 R1588 0, I376 R1589 0, I377 R1590 0 — V61
I372 R1591 0, I373 R1592 0, I374 R1593 0 — V60
I369 R1594 0, I370 R1595 0, I371 R1596 0 — V62
I366 R1597 0, I367 R1598 0, I368 R1599 0 — V60
I363 R1600 0, I364 R1601 0, I365 R1602 0 — V62
I360 R1603 0, I361 R1604 0, I362 R1605 0 — V60

TO CELL ASS'Y

CN1018 30P

+12V	a1
+12V	a2
+4V	a3
+4V	a4
+4V	a5
+4V	a6
+4V	a7
+6V	a8
+6V	a9
+6V	a10
+6V	a11
+6V	a12
+6V	a13
+5V	a14
+5V	a15
GND	b1
GND	b2
GND	b3
GND	b4
GND	b5
GND	b6
GND	b7
GND	b8
GND	b9
GND	b10
GND	b11
GND	b12
GND	b13
GND	b14
GND	b15

TO G BOARD CN201

12V, 4V, 6V, 5V, 5V-2
C1064 47 16V, C1065 47 16V
C1066 47 16V, C1067 0.1, C1068 47 16V, C1069 0.1
EMI, FL1039, FL1040
JW1001 JW1002 JW1003

C1132 0.1, C1133 47 16V
C1130 0.1, C1131 47 16V

IC1001 ~ IC1016
5V-2, 5V
C1070 0.1 ~ C1088 0.1

IC1017 ~ IC1034
5V-2
C1089 0.1 ~ C1119 0.1
5V
C1090 0.1 ~ C1122 0.1

IC1035 ~ IC1038
5V
C1123 0.1 ~ C1126 0.1

IC1039 ~ IC1041
5V
C1127 0.1 ~ C1129 0.1

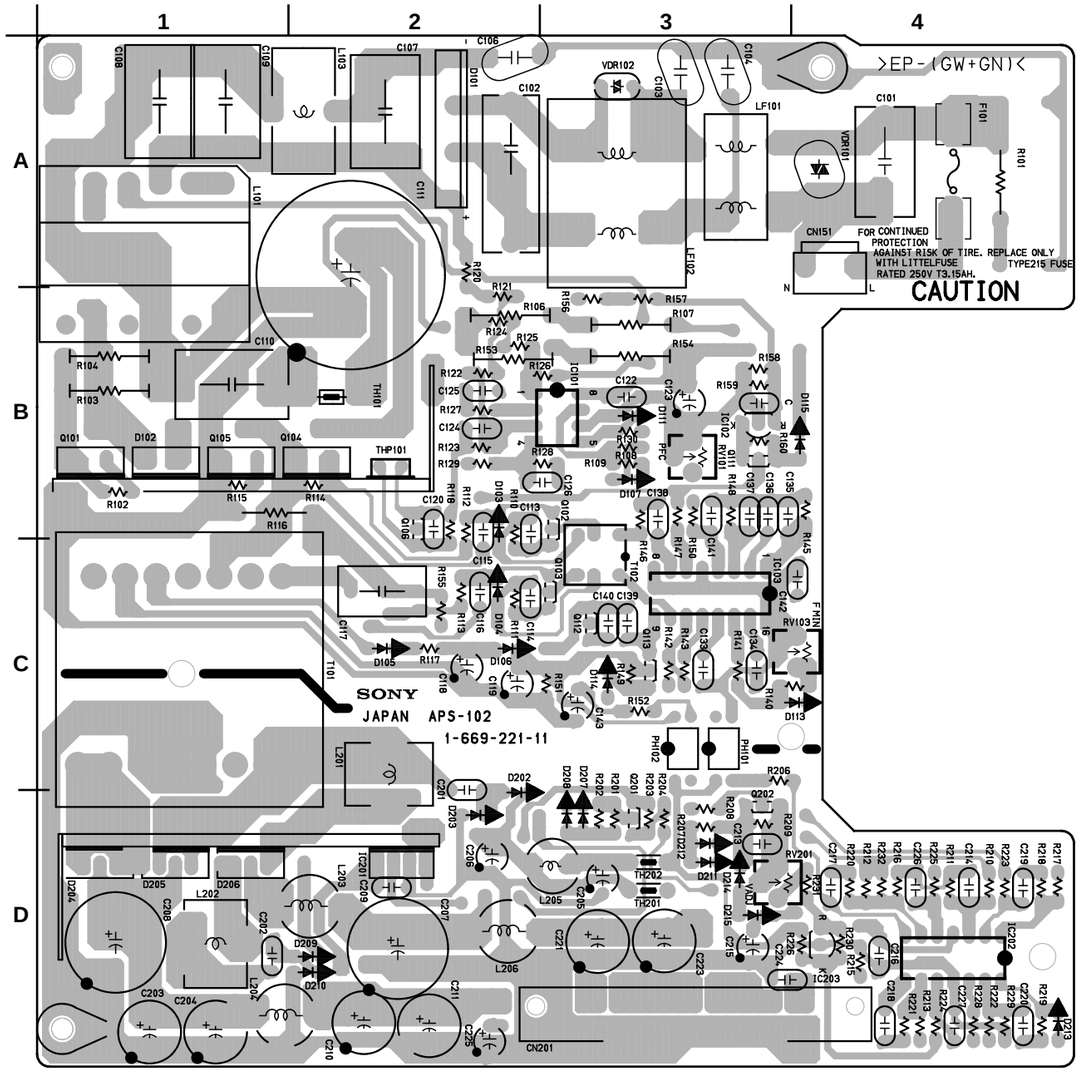
IC1035 (9/9) SN74HC541APW-E05
IC1036 (9/9) SN74HC540APW-E05
IC1037 (9/9) SN74HC541APW-E05
IC1038 (9/9) SN74HC540APW-E05
5V, 20, 1, 19, 10

TP1001 TP1002 TP1003 TP1004

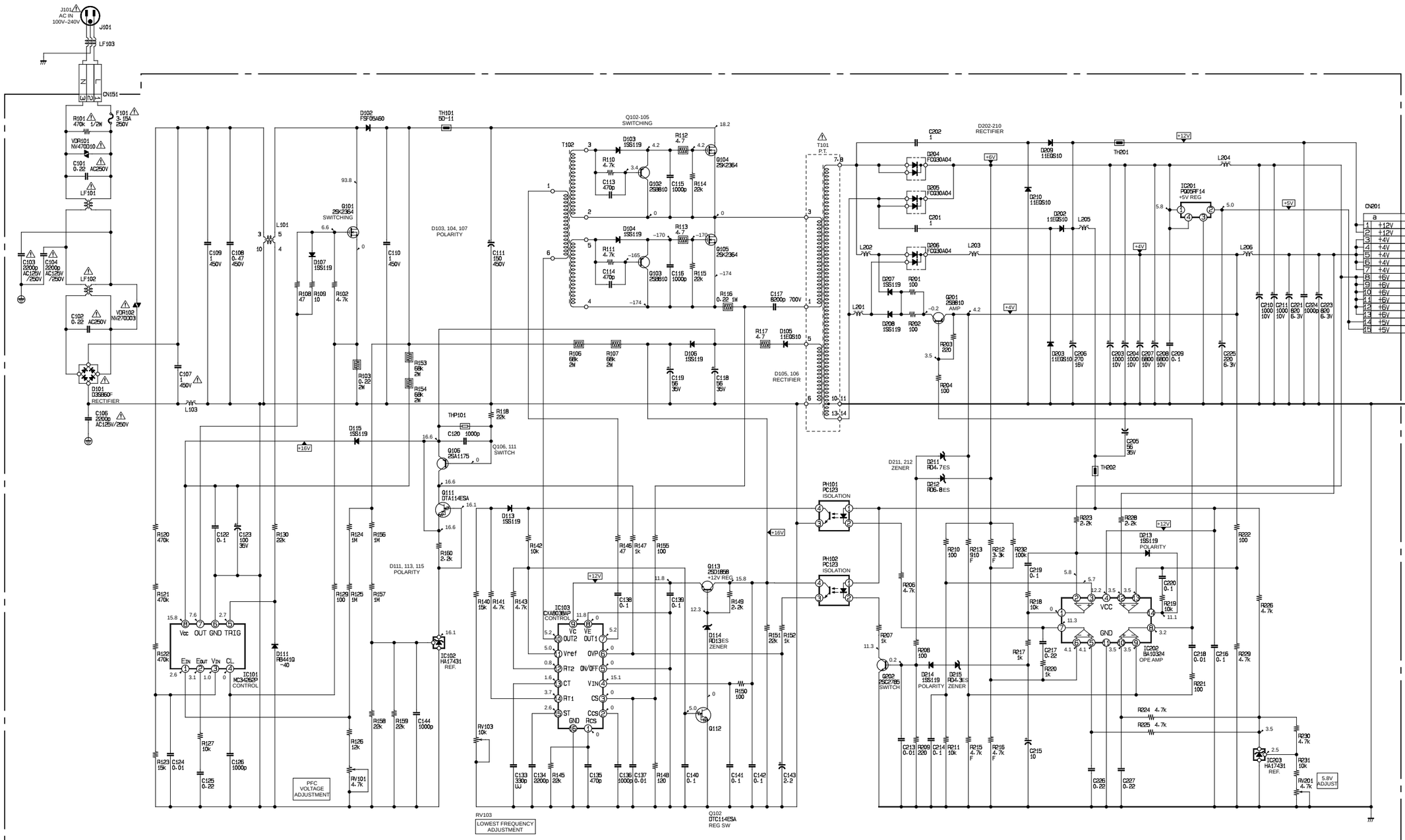
B-SS7626<WW.>-B..-P8

G (APS-102)
BOARD

D101	A-2
D102	B-1
D103	B-2
D104	C-2
D105	C-2
D106	C-2
D107	B-3
D111	B-3
D113	C-4
D114	C-3
D115	B-4
D202	D-2
D203	D-2
D204	D-1
D205	D-1
D206	D-1
D207	D-3
D208	D-3
D209	D-2
D210	D-2
D211	D-3
D212	D-3
D213	D-4
D214	D-3
D215	D-3
IC101	B-3
IC102	B-3
IC103	C-3
IC201	D-2
IC202	D-4
IC203	D-4
Q101	B-1
Q102	B-3
Q103	C-3
Q104	B-2
Q105	B-1
Q106	B-2
Q111	B-3
Q112	C-3
Q113	C-3
Q201	D-3
Q202	D-3
RV101	B-3
RV103	C-4
RV201	D-3



G (APS-102)
SUFFIX-11



G (APS-102) (SWITCHING REGULATOR)

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